

475 Seventeenth Street Suite 1500 Denver Colorado 80202 Telephone: 303 573 1222 Facsimile: 303 573 0461

June 16, 2005

Utah Division of Oil, Gas and Mining 1594 West North Temple, Suite 1210 P. O. Box 145801 Salt Lake City, Utah 84114-5801

Attn.: Ms. Diana Whitney

RE: Archy Bench 11-22-12-2

SWNW Sec 2 T11S-R22E Uintah County, Utah

Dear Ms. Whitney:

Enclosed are two original applications to drill concerning the referenced proposed well. According to Enduring Resources' references, this acreage is managed by the Bureau of Land Management. Therefore, this information was also submitted to them.

Enduring Resources, LLC is requesting the Utah Division of Oil, Gas and Mining to hold this application and all future information as confidential.

If any questions arise or additional information is required, please contact me at 303-350-5114.

Sincerely,

Phyllis Sobotik

Regulatory Specialist

/ps

Enclosures:

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DIV. OF OIL, GAS & MINING

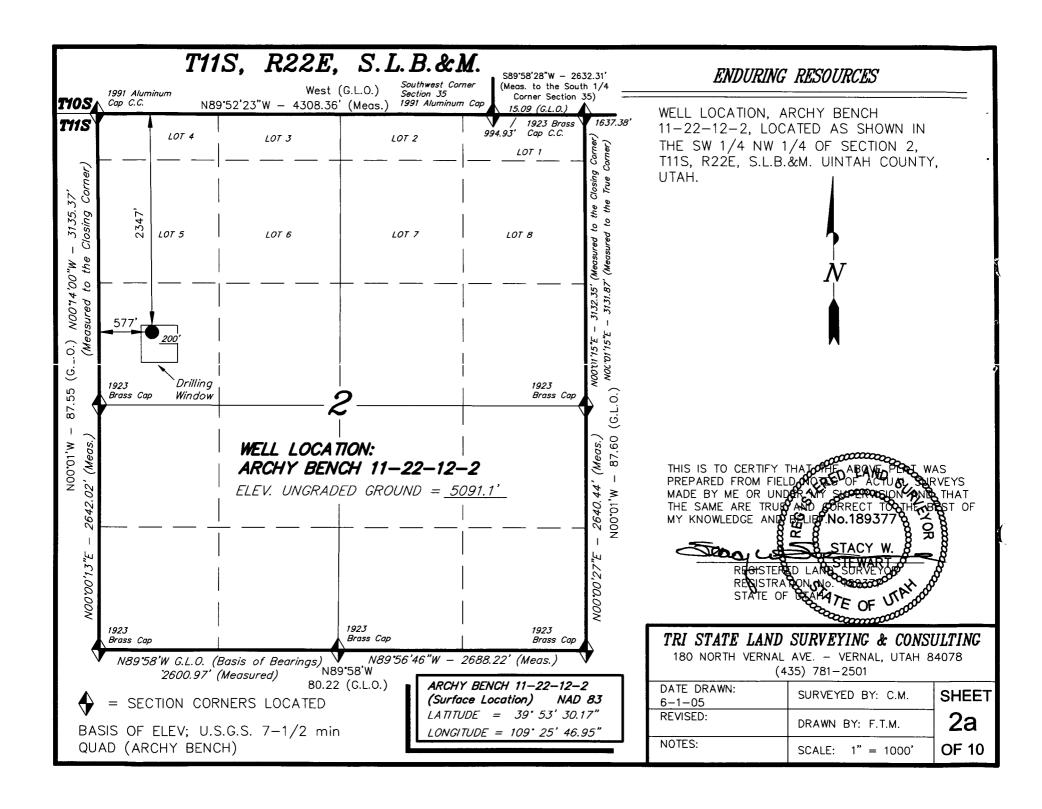
STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS AND MINING

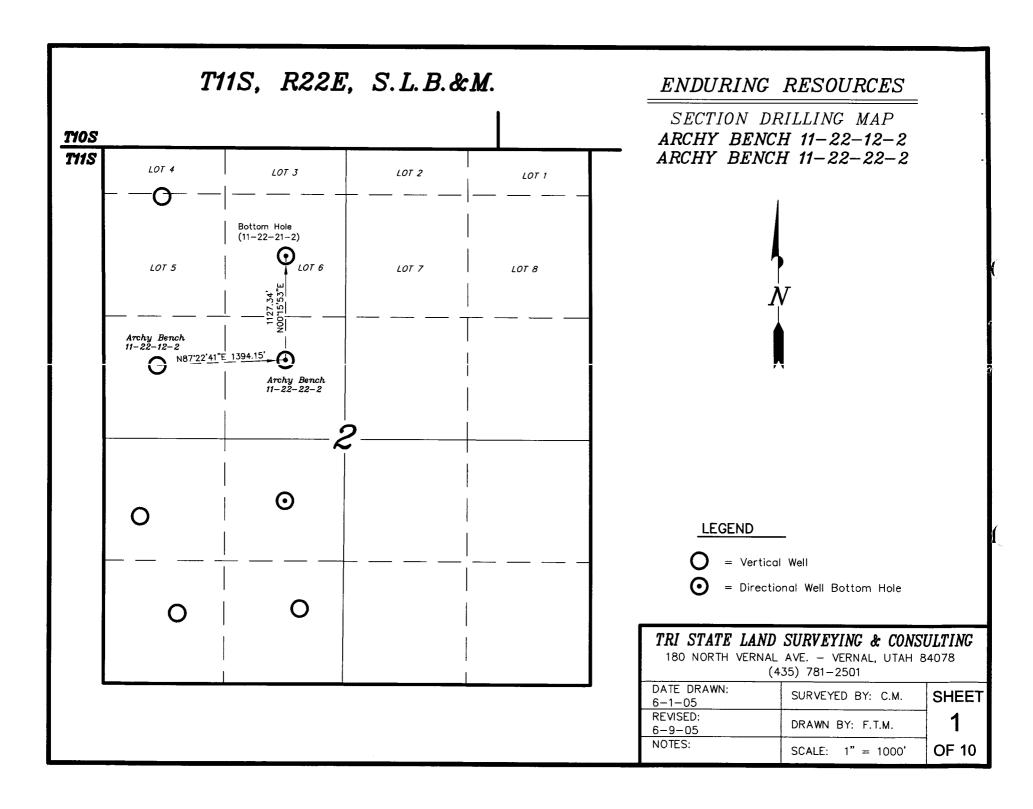


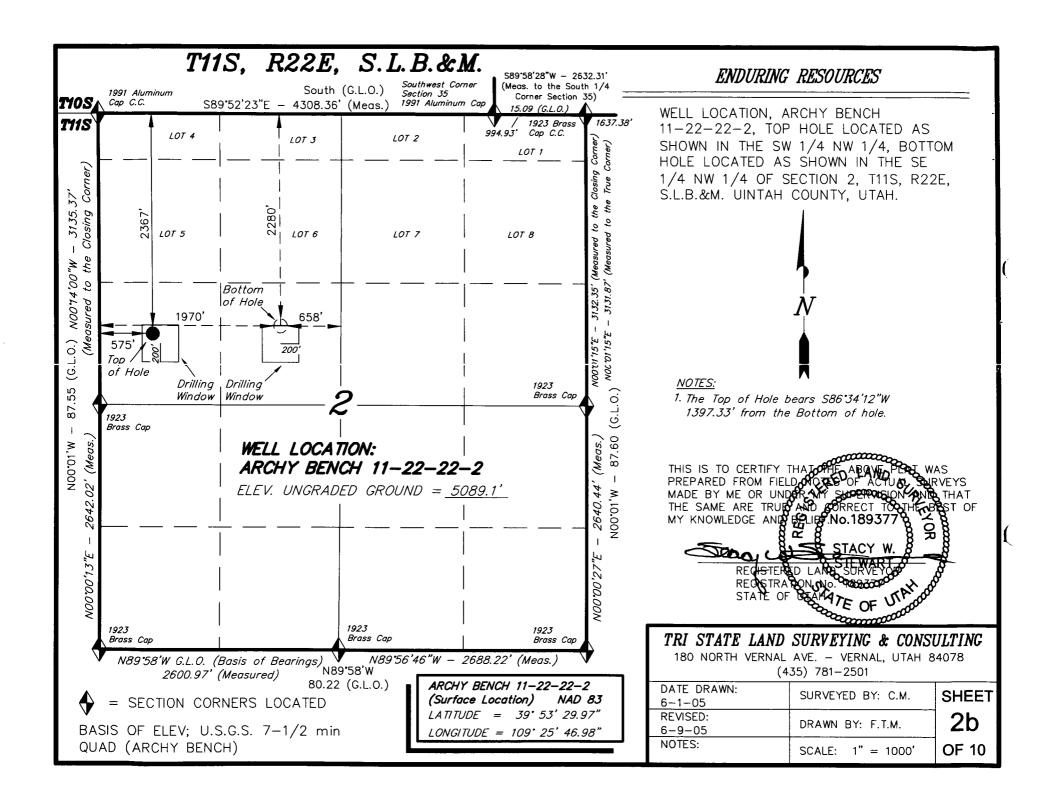
DIV. OF OIL, GAS & MINING

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B. TYPE OF WE	ELL: OIL	GAS 🗾 C	THER	SIN	GLE ZONE 🔽 MUI	TIPLE ZONE	8. UNIT or CA AGR	EEMENT NAM	IE:
2. NAME OF OPE	erator: Resources, l	1C					9. WELL NAME and Archy Bend		.12-2
3. ADDRESS OF	OPERATOR:				PHONE N		10. FIELD AND PO		
		0 CITY Denve	STAT	E CO ZIP 80	202 (303)	350-5114		u Cre	
AT SURFACE:		577' FWL S NE: Same as	Sec 2 T11S F above		X 39,8917. BM. 1 -109,428		11. QTR/QTR, SEC MERIDIAN: SWNW 2	11S	
		CTION FROM NEAR					12. COUNTY:	1:	3. STATE: UTAH
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	O NEAREST WELL	(DRILLING, COMPL	ETED, OR	19. PROPOSED	DEPTH:		20. BOND DESCRIPTION:		
1394.15'						7,676	RLB0008031		
	·	R DF, RT, GR, ETC.)	:	l l	ATE DATE WORK WILL STA	RT:	23. ESTIMATED DURATIO	N:	
5091.1' G	SR Ungrade	d		10/1/200)5		20 days		
24.			PROPOSE	ED CASING A	ND CEMENTING PI	ROGRAM			
SIZE OF HOLE	CASING SIZE,	GRADE, AND WEIGH	IT PER FOOT	SETTING DEPTH	СЕМ	ENT TYPE, QUAN	TITY, YIELD, AND SLURRY	Y WEIGHT	
12-1/4"	8-5/8"	J-55	24#	2,000	65/35 Poz		462 sx	1.81	12.6 ppg
					Prem		236 sx	1.18	15.6 ppg
7-7/8"	4-1/2"	N-80/I-80	11.6#	7,676	Prem Lite II		363 sx	3.38	11.0 ppg
					50/50 Poz CI G		1206 sx	1.31	14.3 ppg
25.			•	ATTA	CHMENTS				
VERIFY THE FOL	LLOWING ARE ATT	ACHED IN ACCORD	ANCE WITH THE UT	TAH OIL AND GAS C	ONSERVATION GENERAL R	ULES:		<u></u>	
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NAME (PLEASE	PRIMIT) Phyllis	Sobotik			тітье Regu	ılatory Spec	cialist		
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(This space for Sta	ite use only)				Ü				
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Enduring Resources, LLC Archy Bench 11-22-12-2 SWNW Sec. 2 T11S-R22E Uintah County, Utah Lease # ML-47075

ONSHORE ORDER 1 - DRILLING PLAN

1. Estimated Tops of Geological Markers:

<u>Formation</u>	<u>Depth</u>
Uinta	Surface
Green River	232'
Wasatch	3243'
Mesaverde	5640'

2. Estimated Depths of Anticipated Water, Oil, Gas or Other Minerals: (5097.7' estimated KB)

Substance	Formation	Depth	
	Uinta	Surface	
Oil / Gas	Green River	232'	
Oil /Gas	Wasatch	3243'	
Oil /Gas	Mesaverde	5640'	
	Estimated TD	7676'	

A 12-1/4" hole will be drilled to approximately 2000 feet. The depth will be determined by the depth that the Birds Nest zone is encountered. The hole will be drilled 400 feet beyond the top of the Birds Nest zone and surface casing will be set.

3. Pressure Control Equipment: (3000 psi schematic attached)

A. Type:

Eleven (11) inch double gate hydraulic BOP with eleven (11) inch annular preventer with 3,000 psi Casinghead and 3,000 psi Tubinghead equipped per the attached diagrams for 3,000 psi. BOPE as specified in *Onshore Oil & Gas Order Number 2*. A PVT, Stroke Counter and flow sensor will be installed to check for flow and monitor pit volume.

B. Pressure Rating: 3,000 psi BOPE

C. Kelly will be equipped with upper and lower Kelly valves.

D. Testing Procedure: Annular Preventer

At a minimum, the annular preventer will be pressure tested to 50% of the stack rated working pressure for a period of ten (10) minutes or until provisions of the test are met, whichever is longer.

At a minimum, the above pressure test will be performed:

- 1. When the annular preventer is initially installed;
- 2. Whenever any seal subject to test pressure is broken;
- 3. Following related repairs; and
- 4. At thirty (30) day intervals.

In addition to the above, the annular preventer will be functionally operated at least weekly.

Blow-Out Preventer

At a minimum, the BOP, choke manifold, and related equipment will be pressure tested to the approved working pressure of the BOP stack (if isolated from the surface casing by a test plug) or to 70% of the internal yield strength of the surface casing (if the BOP is not isolated from the casing by a test plug). Pressure will be maintained for a period of at least ten (10) minutes or until the requirements of the test are met, whichever is longer.

At a minimum, the above pressure test will be performed:

- 1. When the BOP is initially installed;
- 2. Whenever any seal subject to test pressure is broken;
- 3. Following related repairs; and
- 4. At thirty (30) day intervals.

In addition to the above, the pipe and blind rams will be activated each trip, but not more than once each day. All BOP drills and tests will be recorded in the IADC driller's log.

D. Miscellaneous Information:

The blowout preventer and related pressure control equipment will be installed, tested and maintained in compliance with the specifications in and requirements of *Onshore Oil & Gas Order Number 2*.

Totco directional surveys will be dropped every 2000 feet. Maximum allowable angle is 5 degrees.

4. Proposed Casing & Cementing Program:

A. Casing Program: All New

Hole Size	Casing Size	Wt./Ft.	Grade	Joint	Depth Set (md)
20"	16"	•			40'
12-1/4"	8-5/8"	24#	J-55	ST&C	0 - 2,000' est
7-7/8"	4-1/2"	11.6#	N-80/I-80	LT&C	0 – 7676'

The surface casing will have guide shoe, 1 jt., insert float collar. Centralize the first 3 joints with bowspring centralizers. Thread lock guide shoe.

Casing string(s) will be pressure tested to 0.22 psi/foot of casing string length or 1500 psi, whichever is greater (not to exceed 70% of the internal yield strength of the casing), after cementing and prior to drilling out from under the casing shoe.

B. Casing Design Parameters:

Depth (md)	Casing	Collapse(psi)/SF	Burst (psi)/SF	Tension(mlbs)/SF
40	16"			
2000	8-5/8", 24#/ft, J55, STC	1370/1.53(a)	4460/4.98(b)	244/5.08(c)
7676	4-1/2", 11.6#/ft, N-80, LTC	6350/1.60 (d)	7780/2.14 (e)	223/2.91 (f)

- (a.) based on full evacuation with 8.6 ppg fluid on annulus
- (b.) based on 8.6 ppg gradient with no fluid on annulus
- (c.) based on casing string weight in 8.6 ppg mud
- (d.) based on full evacuation with 10.0 ppg fluid on annulus, pipe evacuated

- (e.) based on 9.2 ppg gradient, gas to surface, with no fluid on annulus, no gas gradient.
- (f.) based on casing string weight in 9.2 ppg mud

PROPOSED CEMENTING PROGRAM

Surface Casing (if well will circulate)-Cemented to surface

CASING	SLURRY	FT. of FILL	CEMENT TYPE	SXS	EXCESS (%)	WEIGHT (ppg)	YIELD (ft ³ /sx)
8-5/8"	Lead	1500	65/35 POZ +6% Gel +10 pps gilsonite + .25 pps Flocele + 3% salt BWOW	462	35%	12.6	1.81
8-5/8"	Tail	500	Premium cmt +2% CaCl +25 pps flocele	236	35%	15.6	1.18

A cement top job is required if cement fallback is greater than 10' below ground level. Top job cement will be premium cement w/2% CaCl. Volume as required.

Surface Casing (if well will not circulate)-Cemented to surface

CASING	SLURRY	FT. of FILL	CEMENT TYPE	SXS	EXCESS (%)	WEIGHT (ppg)	YIELD (ft ³ /sx)
8-5/8"	Lead	500	Premium cmt + 2% CaCl +.25 pps flocele	280	60	15.6	1.18
8-5/8"	Top job	As req.	Premium cement + 2% CaCl	Req.		15.6	1.18

Production Casing and Liner-Cemented TD to Surface

CASING	SLURRY	FT. of FILL	CEMENT TYPE	SXS	EXCESS (%)	WEIGHT (ppg)	YIELD (ft³/sx)
4-1/2"	Lead	3226	Premium Lite II +3% KCL +0.25 pps celloflake +5 pps gilsonite +10% gel +0.5% extender	363	60	11.0	3.38
4-1/2"	Tail	4450	50/50 POZ Class G +10% salt + 2% gel + 1% R-3	1206	60	14.3	1.31

Cement volumes for the 4-1/2" Production Casing will be calculated to provide a top of cement to surface. Cement volumes are approximate and were calculated under the assumption that a gauge hole will be achieved. Actual cement volumes may vary due to variations in the actual hole size and will be determined by running a caliper log on the drilled hole.

All waiting on cement (WOC) times will be adequate to achieve a minimum of 500 psi compressive strength at the casing shoe prior to drilling out.

5. Drilling Fluids (mud) Program:

Interval	Mud Weight	Fluid Loss	Viscosity	Mud Type
0'-2000'		No cntrl		Air/mist
2000'-3000'	8.4-8.6	No cutrl	28-36	Water
3000'-7676'	8.8-10.2	8 - 10 ml	32-42	Water/Gel

Sufficient mud material(s) to maintain mud properties, control lost circulation and contain a blowout will be available at the well site during drilling operations.

6. Evaluation Program:

<u>Tests</u>: No tests are currently planned.

Coring: No cores are currently planned.

Samples: None

Logging: Dual Induction – SFL /Gamma Ray Caliper: TD to Base Surface Casing

Compensated Neutron/Litho Density Temperature/Gamma Ray: TD to Base Surface Casing

Cement Bond Log / Gamma Ray:

PBTD to Top of Cement

Stimulation: A stimulation or frac treatment will be designed for completion of this well based on

openhole log analysis. The drill site, as approved, will be sufficient size to accommodate

October 1, 2005

all completion activities.

7. Abnormal Conditions:

No abnormal temperatures or pressures are anticipated. No H₂S has been encountered or known to exist from previous wells drilled to similar depths in the general area.

Maximum anticipated bottom hole pressure equals approximately 3991 psi (calculated at 0.52 max psi/foot of hole) and maximum anticipated surface pressure equals approximately 2302 psi (anticipated bottom hole pressure minus the pressure of a partially evacuated hole calculated at 0.22 psi/foot of hole).

8. Anticipated Starting Dates:

Anticipated Commencement Date-

Drilling Days- Approximately 10 days

Completion Days - Approximately 10 days

Anticipate location construction within 30 days of permit issue.

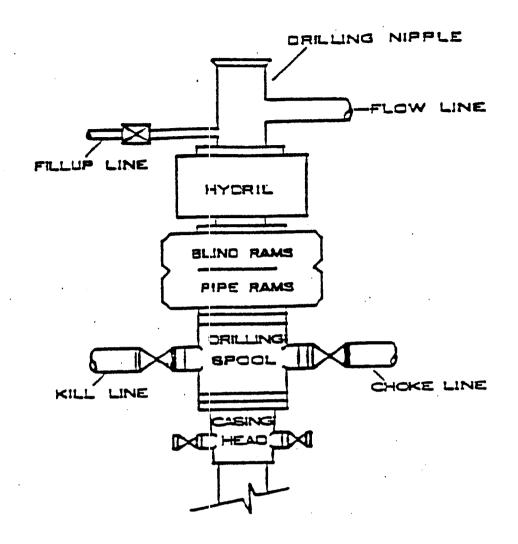
9. <u>Variances:</u>

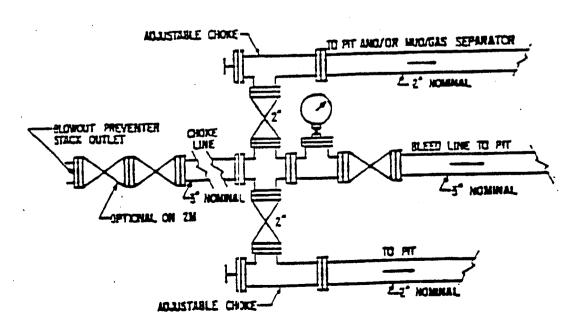
None anticipated

10. Other:

A Cultural Resource Inventory and Paleontology reconnaissance shall be conducted for the well location, access route and pipeline. The reports shall be submitted to the Division of Oil, Gas and Mining upon their receipt.

EOP STACK





Enduring Resources, LLC Archy Bench 11-22-12-2 SWNW Sec. 2 T11S-R22E Uintah County, Utah Lease # ML-47075

MULTI-POINT SURFACE USE & OPERATIONS PLAN

1. Existing Roads:

Directions to the proposed location are as follows:

Beginning at the city of Bonanza, Utah, proceed south on State Hwy 45 for approximately 5.7 miles to where there is a turn off to the right. Turn right, exiting State Hwy 45, and proceed southwest on Southam Canyon Road (Class B County Road 4170) for a distance of approximately 5.1 miles. Continue along County Road 4170 going west then northwesterly for approximately 3.7 miles. Proceed along the same road going southwest then westerly for approximately 3.2 miles to where the road forks. Turn left and continue southerly along Asphalt Wash (Class B County Road 4160) for 3.0 miles to where the road forks near a landing strip. Stay to the right and continue south along Asphalt Wash road for approximately 6.5 miles to where there is a turn-off to the right. Turn right onto Bitter Creek Road (Class B County Road 4120) and continue in a westerly direction for approximately 1.9 miles to where then is a turn off to the left. Turn left and continue in a westerly direction for approximately 5.4 miles to an intersection with Buck Camp Canyon Road (Class B County Road 4220). Turn right and continue on Bitter Creek Road traveling in a northerly direction for approximately 5.1 miles to the proposed well location. This location is situated adjacent to Bitter Creek Road and shall be the well pad for the proposed Archy Bench #11-22-12-2 and the proposed Archy Bench #11-22-22-2 well.

The proposed well site is located approximately 39.6 miles Southwesterly from Bonanza, Utah. Refer to attached Topographic Map "A" and "B"

All existing roads will be maintained and kept in good repair during all drilling and completion operations associated with this well.

2. Planned Access Roads:

The 3,600 feet (0.7 miles) of the proposed access road is an existing road (Bitter Creek Road-Class B County Road 4120) requiring no new construction or upgrades. Approximately 50 feet of new constructed access road is proposed to enter the location from the existing access road. This location and access road shall be for both the Archy Bench #11-22-12-2 and the Archy Bench #11-22-22-2 wells. Please refer to Topo Map "B".

The access road will be crowned 2% to 3%, ditched and constructed with a running surface of 18 feet and a maximum disturbed width of 30 feet right-cf-way. Maximum grade of road is 5% or less. Graveling or capping the roadbed will be performed as necessary to provide a well constructed, safe road. No fence crossings, culverts, turnouts, cattleguards or major cuts and fills are required. Prior to construction or upgrading, the proposed road shall be cleared of any snow and allowed to dry completely.

Surface disturbance and vehicular traffic will be limited to the proposed location and proposed access route. Any additional area needed will be approved in advance. All construction shall be in conformance with the standards outlined in the BLM and Forest Service publication: Surface Operating Standards for Oil and Gas Exploration and Development. 1989.

The road surface and shoulders will be kept in a safe usable condition and will be maintained in accordance with the original construction standards. All drainage ditches will be kept clear and free flowing and will be maintained according to original construction standards. The access road surface will be kept free of trash during operations. All traffic will be confined to the approved disturbed surface. Road drainage crossings shall be designed so they will not cause siltation or accumulation of debris in the drainage crossing nor shall

the drainages be blocked by the road bed. Erosion of drainage ditches by runoff water shall be prevented by diverting water off at frequent intervals by means of cutouts. Upgrading shall not be allowed during muddy conditions. Should mud holes develop, they shall be filled in and detours around them avoided. When snow is removed from the road during the winter months, the snow shall be pushed outside of the borrow ditches and the turnouts kept clear so that snowment will be channeled away from the road.

3. Location of Existing Wells Within a One Mile Radius: Please refer to Topographic Map "C"

There are no known water wells, temporarily abandoned wells, plugged and abandoned wells, disposal wells, monitoring or observation wells, or injection wells located within a one (1) mile radius of the proposed location.

There is one known producing well – Archy Bench State #1-2 NENE Sec 2 T11S-R22E

There are two known shut in wells - NBU #70-34B NESW Sec 34 T10S-R22E - Bitter Creek #1-3 SWNE Sec 3 T11S-R22E

There may be drilling activity or permitted wells within in the area.

4. Location of Existing &/or Proposed Facilities:

All production facilities will be located on the disturbed portion of the well pad and at a minimum of 25 feet from the toe of the back slope or the top of the fill slope.

A dike will be constructed completely around those production facilities which contain fluids (i.e. production tanks, produced water tanks and/or heater treater.) These dikes will be constructed of compacted subsoil, be impervious, hold 100% of the capacity of the largest tank and be independent of the back cut.

All permanent (on site for six months or longer) above the ground structures constructed or installed, including pumping units, will be painted a flat, non-reflective, earth tone color to match one of the standard environmental colors, as determined by the Rocky Mountain Five State Inter-Agency Committee.

All facilities will be painted within 6 months of installation. Facilities required to comply with the Occupational Safety and Health Act (OSHA) will be excluded. The requested color is Carlsbad Canyon (2.5Y 6/2).

Any necessary pits will be properly fenced to protect livestock and prevent wildlife entry.

An off lease Right-of-Way is being requested from the Bureau of Land Management for approximately 2,760 feet (0.5 miles) of proposed gas gathering line. The width of the right-of-way requested is 15 feet. A permanent right-of-way is requested for a term of 30 years.

If the well is capable of economic production, a surface gas gathering line and related equipment shall be installed. The gas gathering line shall be in use year round. Approximately 2,760 feet (0.5 miles) of 6 inch or less diameter steel, unpainted, welded gas gathering line is proposed to be laid to service both the Archy Bench #11-22-12-2 and the Archy Bench #11-22-22-2 wells. The proposed line shall begin at the well site and continue in a southerly direction being laid alongside the existing access road (Bitter Creek Road-Class B County Road 4120)to the proposed Archy Bench #11-22-14-2 location which shall serve as a common delivery point. The gathering line at the common delivery point shall tie into an existing pipeline located in the southerly portion of Sec 2 T11S-R22E. The proposed gathering line shall be placed above ground adjacent to the access route. The line will be welded together and pulled from the well site location and tie-in point when practical; however, it may be necessary to utilize the access road for welding of the line. The line will then be boomed off to the side of the road. The gas meter run will be located within 500' of the wellhead. The meter run will be housed. The gas gathering line will be buried or anchored down from the wellhead to the meter. Please refer to the attached Topographic Map "D".

Upon plugging and abandonment of both the Archy Bench #11-22-12-2 and the Archy Bench 11-22-22-2 wells, the gas gathering line will be removed and the disturbed area will be re-contoured and restored as near as practical to the original condition. If necessary, re-seeding operations will be performed after completion of other reclamation operations. The appropriate surface management agency will be contacted for the required seed mixture and seeding dates.

5. Location and Type of Water Supply:

Water will be obtained from the White River by Tu and Frum, Inc. Water User Claim #49-2185, Application #T75517, or by Target Trucking Water User Claim #43-2195, or by Dalbo Inc. Water User Claim #43-8496.

Water will be hauled to the location over the roads marked on Topographic Maps "A" and "B".

No water well is to be drilled on this lease.

6. Source of Construction Materials:

Surface and subsoil materials in the immediate area will be utilized for location and access road construction.

Any gravel will be obtained from a commercial source; however, gravel sized rock debris associated with location and access road construction may be used as access road surfacing material.

7. Methods of Handling Waste Materials:

Drill cuttings will be contained and buried in the reserve pit.

Drilling fluids, including salts and chemicals, will be contained in the reserve pit. Upon termination of drilling and completion operations of both the Archy Bench #11-22-12-2 and the Archy Bench #11-22-22-2 wells, the liquid contents of the reserve pit will be removed and disposed of at an approved waste disposal facility within 120 days after drilling of both wells is terminated.

The reserve pit will be constructed on the location and will not be located within natural drainage, where a flood hazard exits or surface runoff will destroy or damage the pit walls. The reserve pit will be constructed so that it will not leak, break or allow discharge of liquids.

A plastic reinforced liner is to be used. It will be a minimum of 12 mil thick and felt with sufficient bedding used to cover any rocks. The liner will overlap the pit walls and be covered with dirt and/or rocks to hold it in place. No trash or scrap that could puncture the liner will be disposed of in the pit.

Any spills of oil, salt water or other noxious fluids will be immediately cleaned up and removed to an approved disposal site.

A chemical portable toilet will be furnished with the drilling rig. The toilet will be replaced periodically utilizing a licensed contractor to transport by truck the portable chemical toilet so that its contents can be delivered to the Vernal Wastewater Treatment Facility in accordance with state and county regulations.

Garbage, trash and other waste materials will be collected in a portable, self-contained, fully enclosed trash cage during operations. No trash will be burned on location.

All debris and other waste material not contained in the trash cage will be cleaned up and removed from the location immediately after removal of the drilling rig.

Any open pits will be fenced during the operations. The fencing will be maintained until such time as the pits are backfilled.

No chemicals subject to reporting under SARA Title III (hazardous materials) in an amount greater than 10,000 pounds will be used, produced, stored, transported or disposed of annually in association with the drilling, completion or testing of this well. Furthermore, no extremely hazardous substances, as defined in 40 CFR 355, in threshold planning quantities, will be used, produced, stored, transported or disposed of in association with the drilling, completion or testing of this well.

Produced oil will be stored in an oil tank and then hauled by truck to a crude purchaser facility. Any produced water from the proposed well will be contained in a water tank and will then be hauled by truck to an approved disposal site.

8. Ancillary Facilities:

During drilling operations, approximately 20 days, the site will be a manned camp. Three or four additional trailers will be on location to serve as the crew's housing and eating facility. These will be located on the perimeter of the pad site within the topsoil stockpiles. Refer to Sheet 6.

9. Well Site Layout: (Refer to Sheet #3, #4, #5 & #6)

The attached Location Layout Diagrams describes drill pad cross-sections, cuts and fills and locations of the mud tanks, reserve pit, flare pit, pipe racks, trailer parking, spoil dirt stockpile(s) and surface material stockpiles(s).

Please see the attached diagram for rig orientation and access roads.

The proposed Archy Bench #11-22-22-2 well is to be a directional well drilled from the proposed Archy Bench #11-22-12-2 well location. Please refer to Sheet 3.

All pits shall be fenced to the following minimum standards:

39 inch net wire shall be used with at least one strand of barbed wire on top of the net wire. Barbed wire is not necessary if pipe or some type of reinforcement rod is attached to the top of the entire fence.

The net wire shall be no more than 2 inches above the ground. The barbed wire shall be 3 inches over the new wire. Total height of the fence shall be at least 42 inches.

Corner posts shall be cemented and/or braced in such a manner to keep the fence tight at all times.

Standard steel, wood or pipe posts shall be used between the corner braces. Maximum distance between any two fence posts shall be no greater than 16 feet.

All wire shall be stretched by, using a stretching device, before it is attached to corner posts.

The reserve pit fencing will be on three sides during drilling operations and on the fourth side when the rig moves off location. Pits will be fenced and maintained until cleanup.

Location size may change prior to drilling the well due to the current rig availability. If the proposed location is not large enough to accommodate the drilling rig, the location will be re-surveyed and a Form 9 will be submitted.

10. Plans for Surface Reclamation:

Producing Location:

Immediately upon well completion of both the Archy Bench #11-22-12-2 and the Archy Bench #11-22-22-2 wells, the location and surrounding area will be cleared of all unused tubing, equipment, materials, trash and debris not required for production.

Immediately upon well completion, any hydrocarbons in the pit shall be removed in accordance with 40 CFR 3162.7.

Before any dirt work associated with location restoration takes place, the reserve pit shall be as dry as possible. All debris in it will be removed. Other waste and spoil materials will be disposed of immediately upon completion of operations for both the Archy Bench #11-22-12-2 and the Archy Bench #11-22-22-2 wells.

The reserve pit and that portion of the location not needed for production facilities/operations for both the Archy Bench #11-22-12-2 and the Archy Bench #11-22-22-2 wells will be re-contoured to the approximate natural contours. The reserve pit will be reclaimed within 90 days from the date of the last well completion, weather permitting.

To prevent surface water(s) from standing (ponding) on the reclaimed reserve pit area, final reclamation of the reserve pit will consist of "mounding" the surface 3 feet above surrounding ground surface to allow the reclaimed pit area to drain effectively.

Upon completion of backfilling, leveling and re-contouring, the stockpiled topsoil will be spread evenly over the reclaimed area(s).

The Operator will control noxious weeds along Rights-Of-Way for roads, pipelines, well sites or other applicable facilities.

Dry Hole / Abandoned Location:

Abandoned well sites, roads and other disturbed areas will be restored as near as practical to their original condition. Where applicable, these conditions include the re-establishment of irrigation systems, the re-establishment of appropriate soil conditions and re-establishment of vegetation as specified.

All disturbed surfaces will be re-contoured to the approximate natural contours with reclamation of the well pad and access road to be performed as soon as practical after final abandonment of both the Archy Bench #11-22-12-2 and the Archy Bench #11-22-22-2 wells. If necessary, re-seeding operations will be performed after completion of other reclamation operations.

Seed Mixture:

The appropriate surface management agency will be contacted for the required seed mixture and seeding dates.

11. Surface Ownership: Location, Access Road & Pipeline

Bureau of Land Management Division of Mineral Resources 170 South 500 East Vernal, Utah 84078 Office – 435-781-4400; Fax – 435-781-4410

12. Other Information:

Wildlife Stipulations: Wildlife stipulations and possible activity restrictions will be detailed in the "Conditions of Approval" received with an approved Permit to Drill. Operator will comply with these wildlife stipulations.

Archeology: A Cultural Resource Inventory shall be conducted for the well location, access route and pipeline. The report shall be submitted to the Division of Oil, Gas and Mining and the Bureau of Land Management upon its receipt.

Paleontology: A Paleontology reconnaissance shall be conducted for the well location, access route and pipeline. The report shall be submitted to the Division of Oil, Gas and Mining and the Bureau of Land Management upon its receipt.

If, during operations, any archaeological or historical sites, or any objects of antiquity (subject to the Antiquities Act of June 8, 1906) are discovered, all operations which would affect such sites will be suspended and the discovery reported promptly to the surface management agency.

All lease operations will be conducted in such a manner that full compliance is made with all applicable laws, regulations, the approved Plan of Operations and any applicable Notice to Lessees. The Operator will be fully responsible for the actions of its subcontractors. A complete copy of the approved "Application for Permit to Drill" will be furnished to the field representative(s) to ensure compliance and shall be on location during all construction and drilling operations.

ENDURING RESOURCES

WELL PAD INTERFERENCE PLAT

ARCHY BENCH 11-22-12-2

ARCHY BENCH 11-22-22-2

SECTION 2, T11S, R22E, S.L.B.&M.



11-22-12-2 2347' FNL & 577' FWL 11-22-22-2 2367' FNL & 575' FWL

11-22-12-2

11-22-22-2

N86'34'12"E – 1397.33' (To Bottom Hole)

BOTTOM HOLE FOOTAGES

11-22-12-2 VERTICAL 11-22-22-2

2280' FNL & 1970' FWL

Note: Bearings are derived using true North.

RELATIVE COORDINATES					
From	top	hole	to	bottom	hole

WELL	NORTH	EAST
12-2	N/A	N/A
22-2	84'	1395'

	TITUDE				
Surface	position	of	Wells	(NAD	83)

WELL	LATITUDE	LONGITUDE
12-2	39* 53' 30.17"	109° 25′ 46.95″
22-2	39° 53' 29.97"	109° 25′ 46.98″

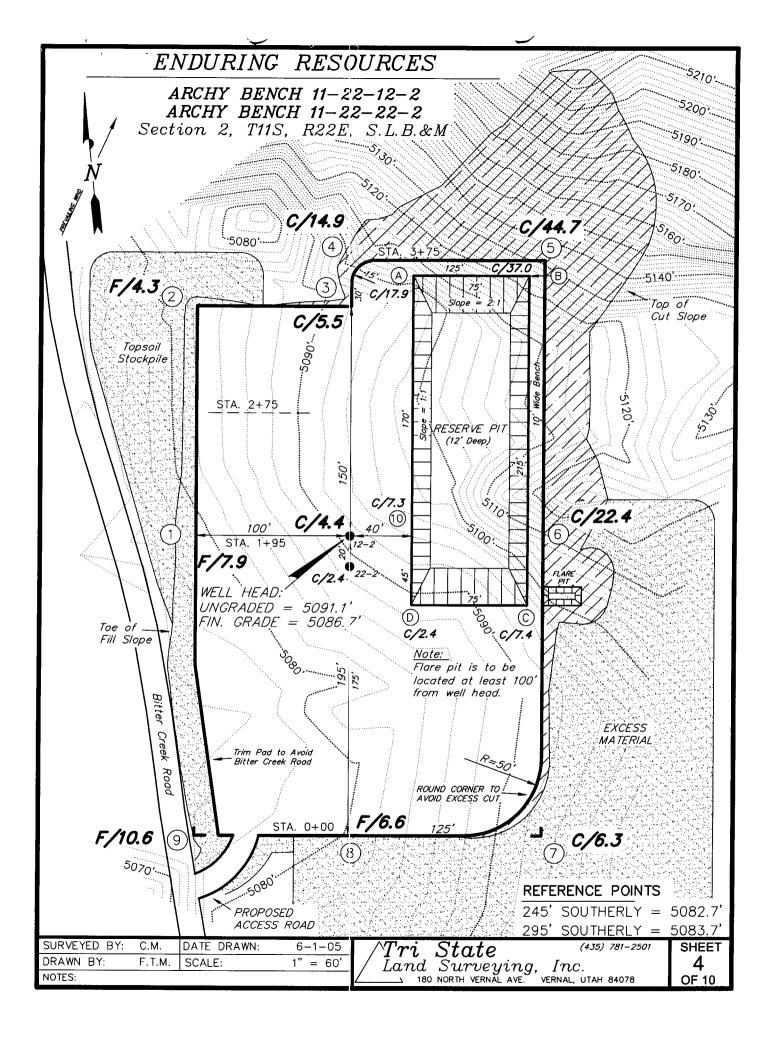
SURVEYED BY:	C.D.	DATE DRAWN:	6-1-05
DRAWN BY:	F.T.M.	SCALE:	1" = 60'
REVISED: 6-9-0	15		

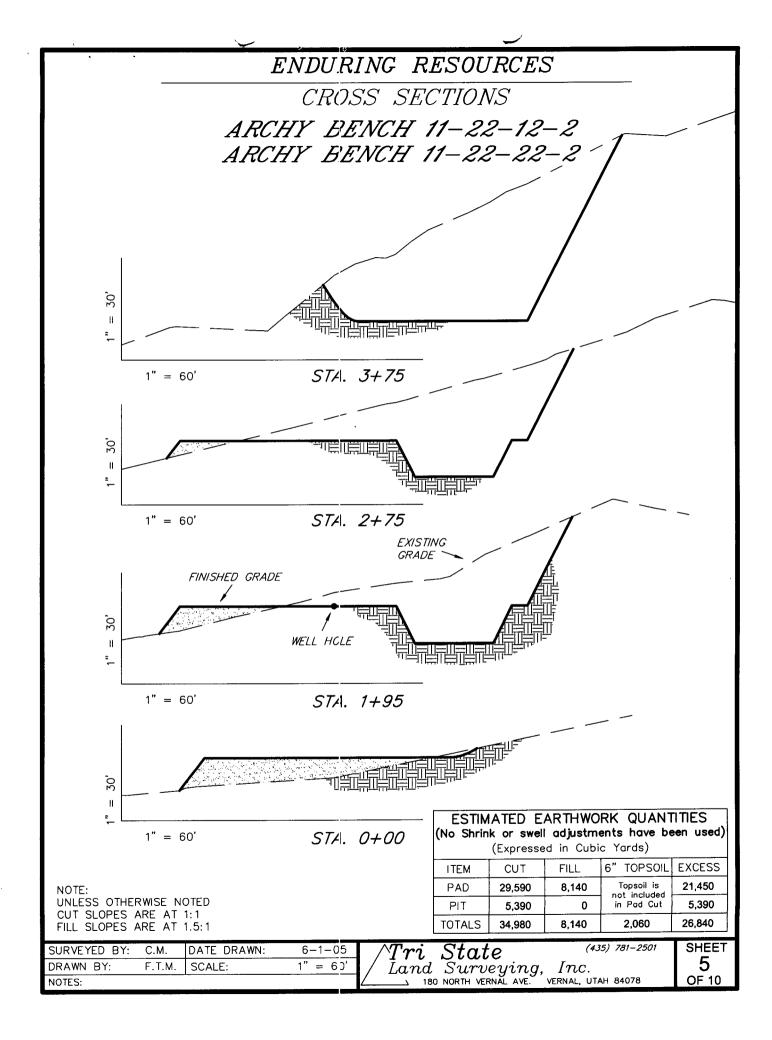
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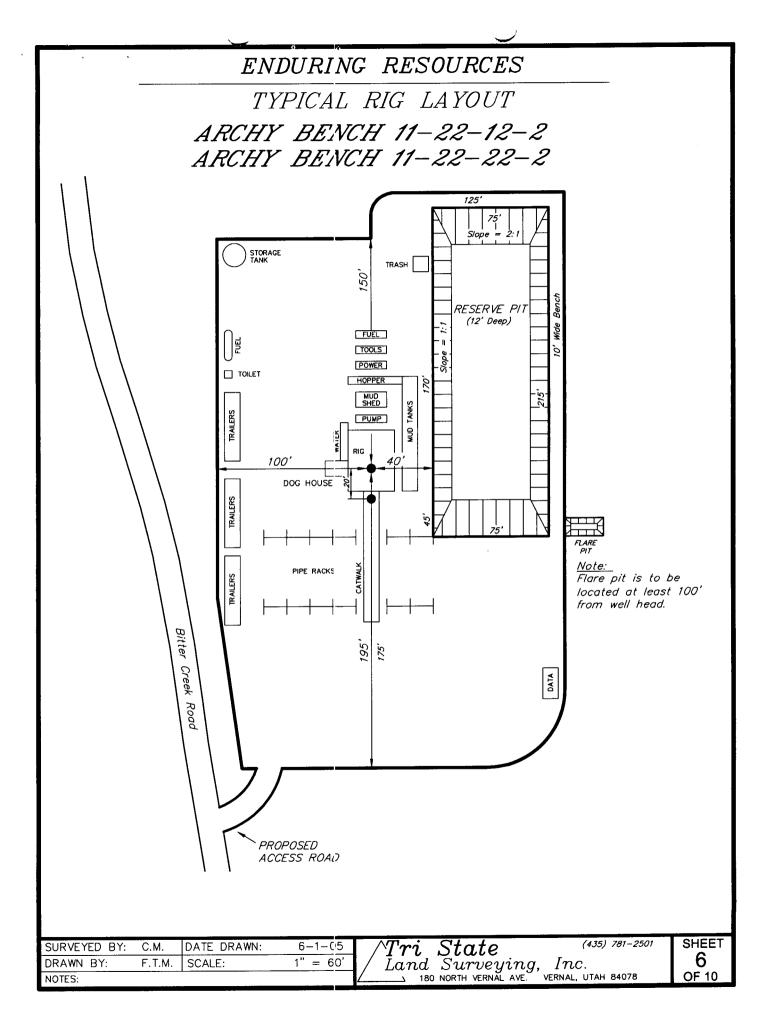
Land Surveying, Inc.

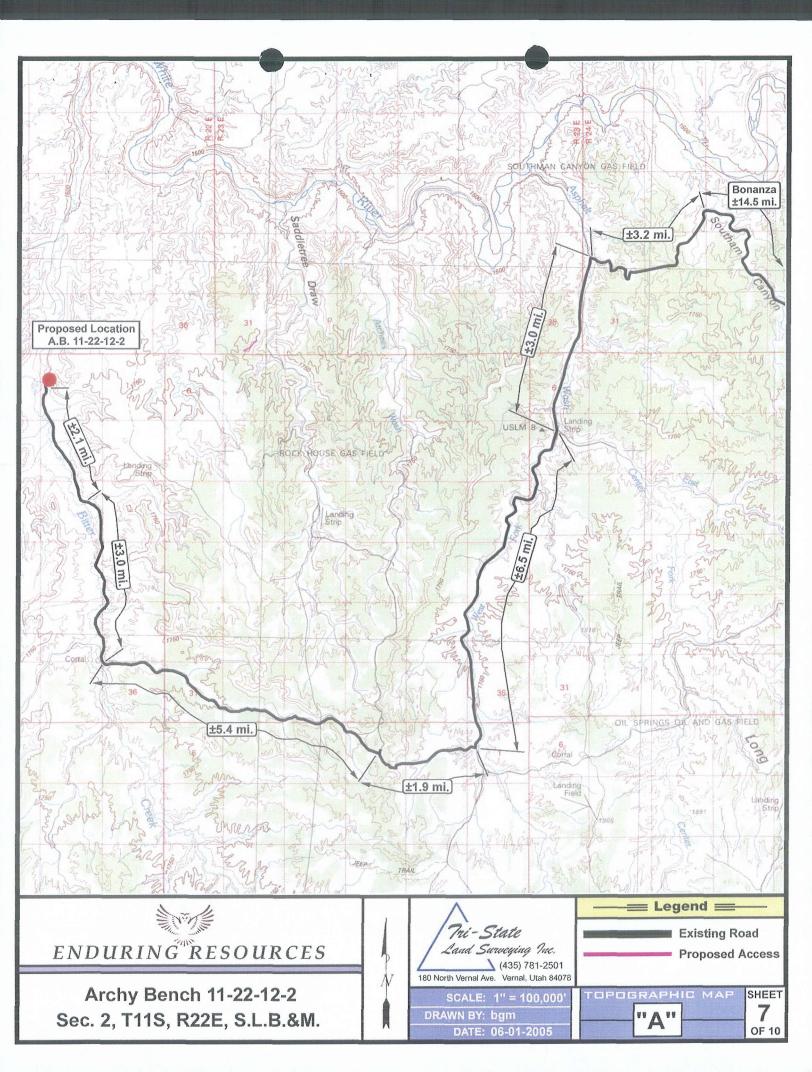
____ 180 NORTH VERNAL AVE. VERNAL, UTAH 84078

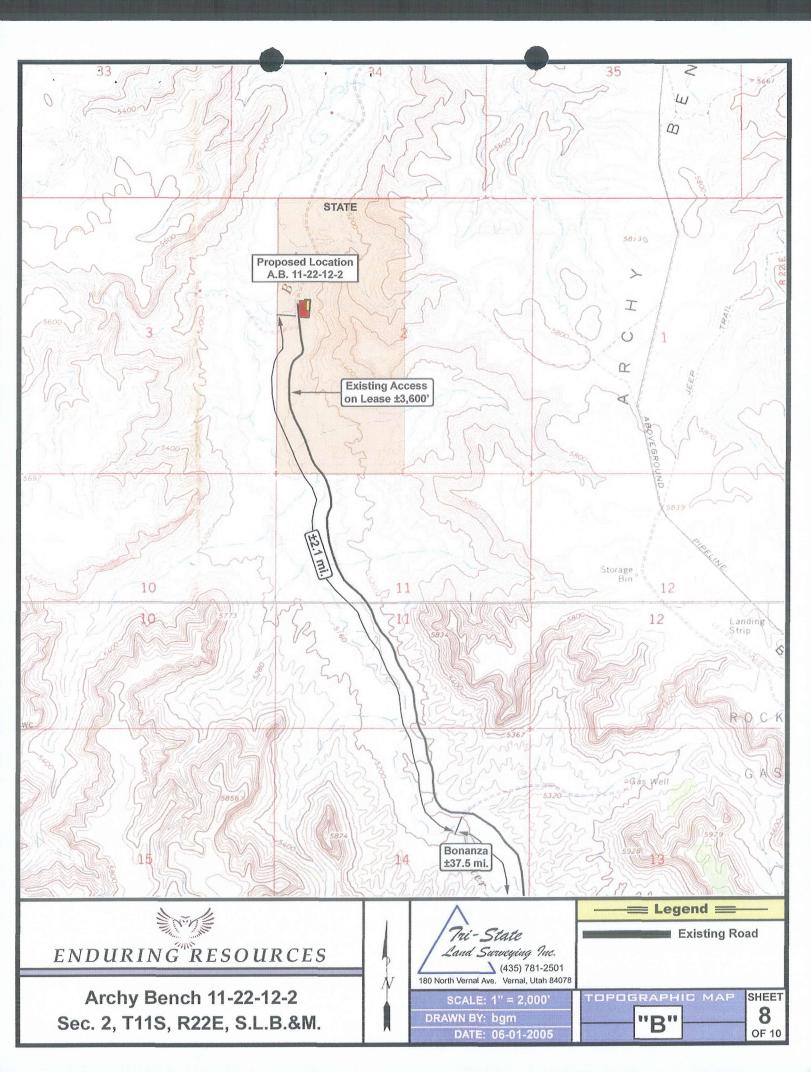
(435) 781-2501 SHEET 2. 3 UTAH 84078 OF 10

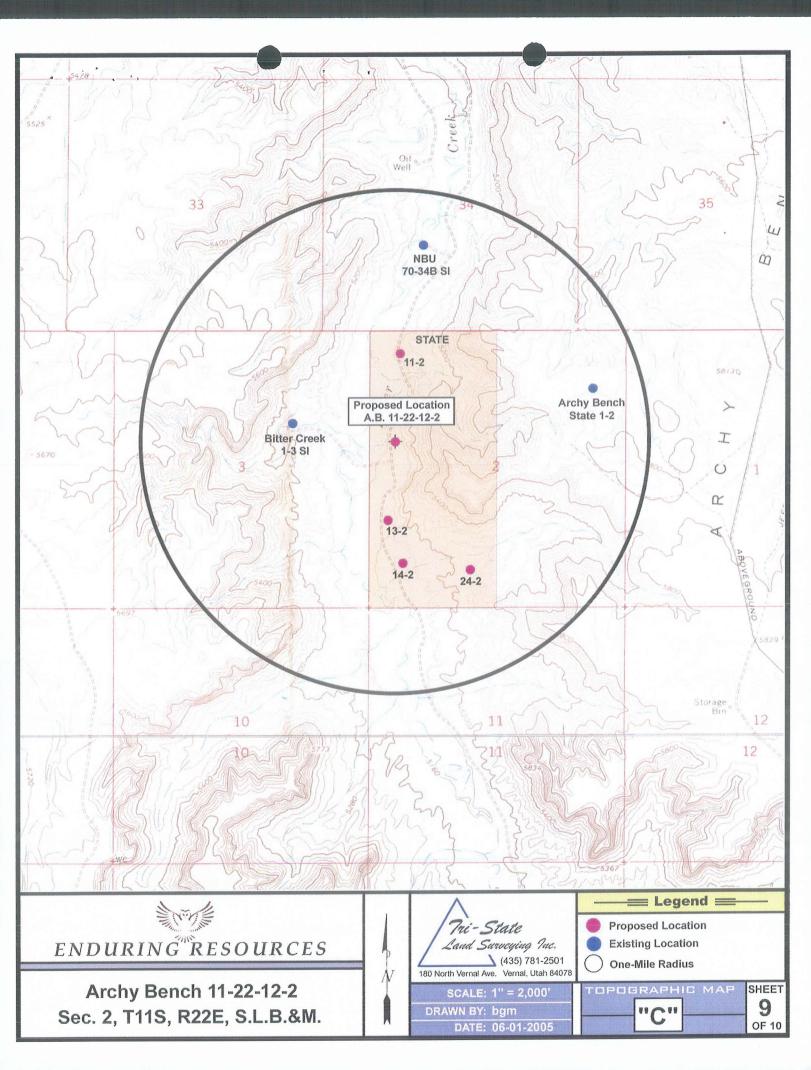


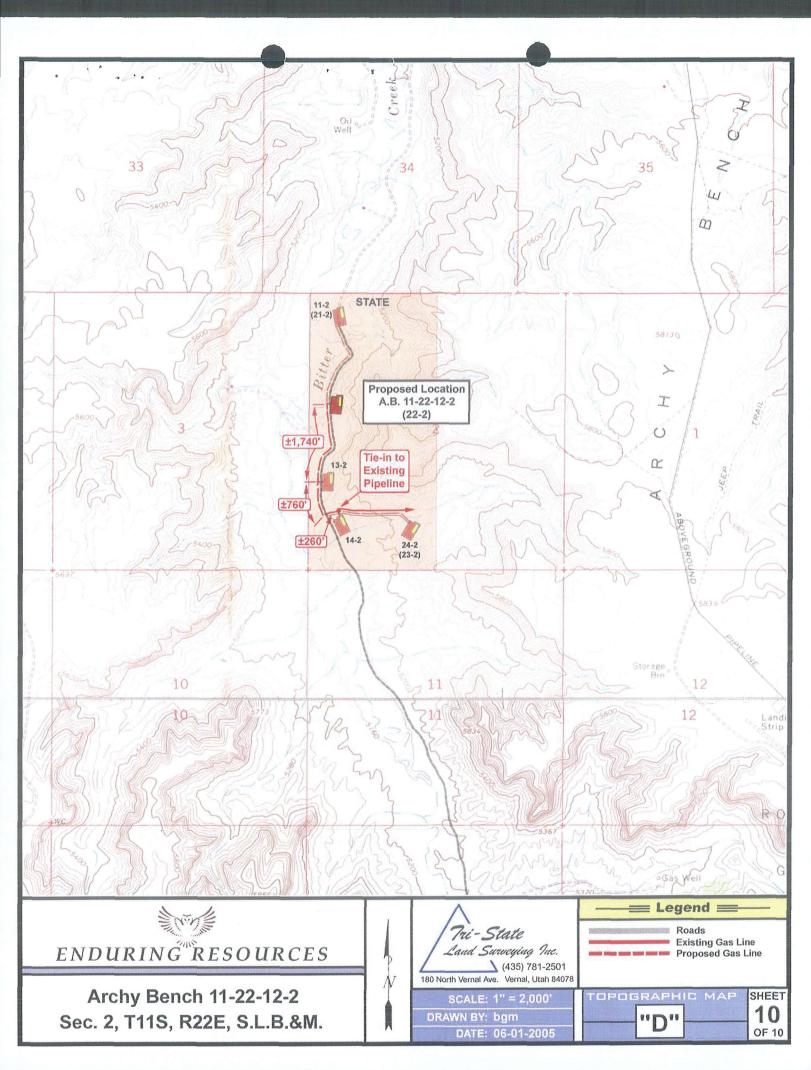












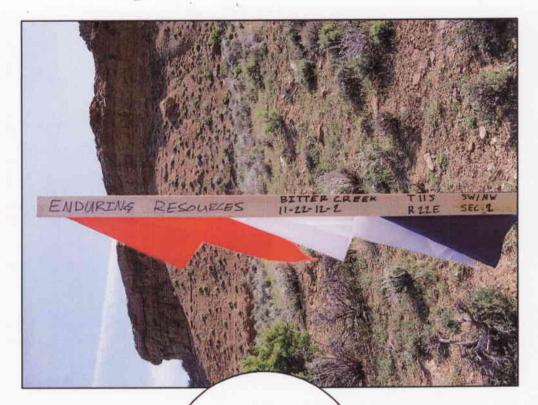
Enduring Resources, LLC Archy Bench 11-22-12-2 SWNW Sec. 2 T11S-R22E Uintah County, Utah Lease # ML-47075

Directions to Proposed Location

Directions to the proposed location are as follows:

Beginning at the city of Bonanza, Utah, proceed south on State Hwy 45 for approximately 5.7 miles to where there is a turn off to the right. Turn right, exiting State Hwy 45, and proceed southwest on Southam Canyon Road (Class B County Road 4170) for a distance of approximately 5.1 miles. Continue along County Road 4170 going west then northwesterly for approximately 3.7 miles. Proceed along the same road going southwest then westerly for approximately 3.2 miles to where the road forks. Turn left and continue southerly along Asphalt Wash (Class B County Road 4160) for 3.0 miles to where the road forks near a landing strip. Stay to the right and continue south along Asphalt Wash road for approximately 6.5 miles to where there is a turn-off to the right. Turn right onto Bitter Creek Road (Class B County Road 4120) and continue in a westerly direction for approximately 1.9 miles to where then is a turn off to the left. Turn left and continue in a westerly direction for approximately 5.4 miles to an intersection with Buck Camp Canyon Road (Class B County Road 4220). Turn right and continue on Bitter Creek Road traveling in a northerly direction for approximately 5.1 miles to the proposed well location. This location is situated adjacent to Bitter Creek Road and shall be the well pad for the proposed Archy Bench #11-22-12-2 and the proposed Archy Bench #11-22-22-2 well.

The proposed well site is located approximately 39.6 miles Southwesterly from Bonanza, Utah.



CENTER STAKE

ENDURING RESOURCES

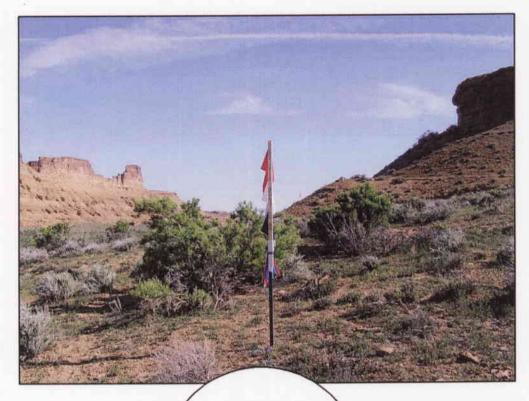
A.B. 11-22-12-2

Date Photographed: 05/20/2005

Date Drawn: 05/23/2005 Drawn By: bgm

7ri-State

Land Surveying Rue.
(435) 781-2501
180 North Vernal Ave. Vernal, Utah 84078



NORTH

ENDURING RESOURCES

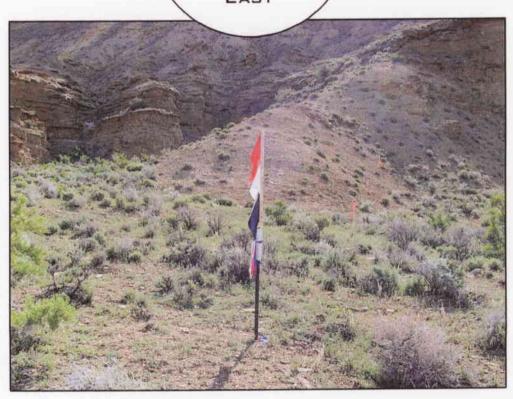
A.B. 11-22-12-2

Date Photographed: 05/20/2005

Date Drawn: 05/23/2005 Drawn By: bgm

Pri-State Land Surveying Inc. (435) 781-2501 180 North Vernal Ave. Vernal, Utah 84078

EAST





SOUTH

ENDURING RESOURCES

A.B. 11-22-12-2

Date Photographed: 05/20/2005

Date Drawn: 05/23/2005 Drawn By: bgm

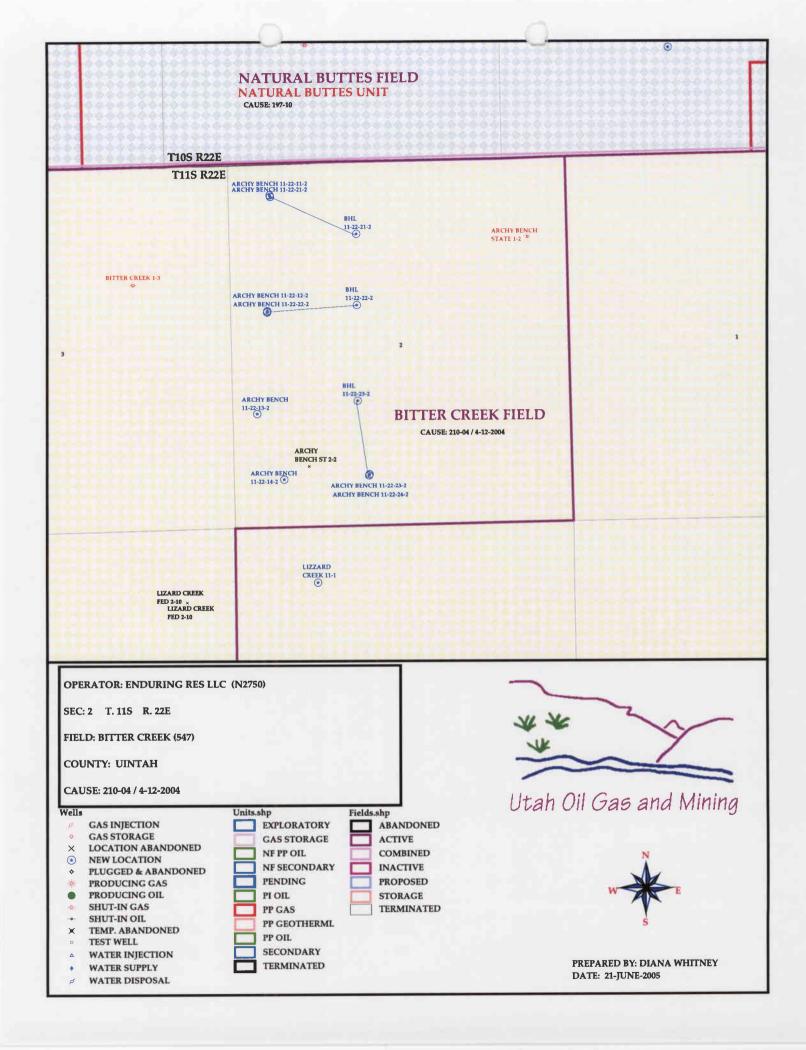
Tri-State Land Surveying Inc. 180 North Vernal Ave. Vernal, Utah 84078

WEST



WORKSHEET APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 06/20/2005	API NO. ASSIGNE	D: 43-047-367	93
WELL NAME: ARCHY BENCH 11-22-12-2 OPERATOR: ENDURING RESOURCES, LLC (N2750) CONTACT: PHYLLIS SOBOTIK PROPOSED LOCATION:	PHONE NUMBER: 30		
SWNW 02 110S 220E	INSPECT LOCATN	BY: /	/
SURFACE: 2347 FNL 0577 FWL BOTTOM: 2347 FNL 0577 FWL	Tech Review	Initials	Date
UINTAH	Engineering	DED	7/7/05
BITTER CREEK (547)	Geology		
LEASE TYPE: 3 - State LEASE NUMBER: ML-47075	Surface		
SURFACE OWNER: 1 - Federal PROPOSED FORMATION: MVRD COALBED METHANE WELL? NO	LATITUDE: 39.8 LONGITUDE: -109		
RECEIVED AND/OR REVIEWED: Plat Bond: Fed[] Ind[] Sta[] Fee[] (No. RLB0008031) Potash (Y/N) Oil Shale 190-5 (B) or 190-3 or 190-13 Water Permit (No. 43-2195) RDCC Review (Y/N) (Date:) HM Fee Surf Agreement (Y/N)	R649-3-3. F	General rom Qtr/Qtr & 920 Exception t No: 210 4.12-200	04 (8/320 4 wary 8970 for
STIPULATIONS: 2-Suffice Cry Count Stiff 3-STATEMENT	un Cappron C)	

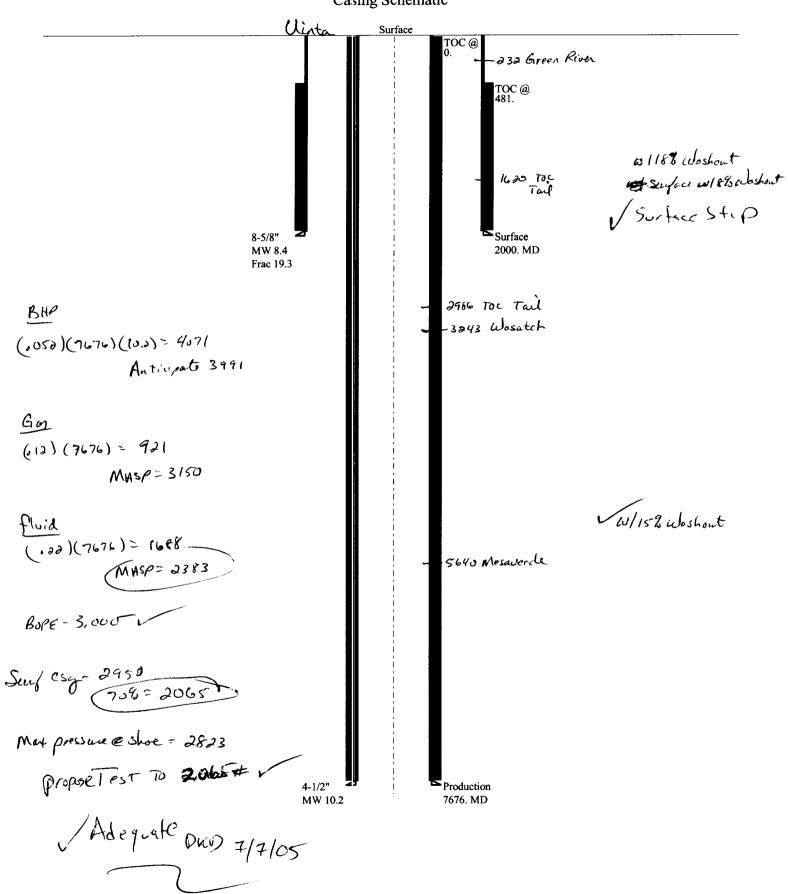


DIVISION OF OIL, GAS AND MINING APPLICATION FOR PERMIT TO DRILL STATEMENT OF BASIS

OPERATOR:	Enduring Resources, LLC
WELL NAME & NUMBER:	Archy Bench 11-22-12-2
API NUMBER:	
	2 TWP: 11S RNG: 22 E 2347 FNL 577 FWL
Geology/Ground Water:	
moderately saline water is estimated water wells within a 10,000 foot rack River Formation. The Green River	t 2,000 feet of surface casing cemented to the surface. The base of the d at 3,100 feet. A search of Division of Water Rights records shows no dius center of Section 2. The surface formation at this location is the Green r Formation is made up of interbedded limestones, shales and sandstones. In the Green River Formation and should be protected. The proposed surface by potentially useable aquifers.
Reviewer: Brad	1 Hill Date: 07-11-05
Surface:	
	ner of the surface rights at this location. The BLM is the administrative the operator is responsible for obtaining any needed permits or rights of surbance.
Reviewer: Brad	Hill Date: 07-11-05
Conditions of Approval/Applicati	on for Permit to Drill:

None

→-05 Enduring Archy Bench →-22-12-2 Casing Schematic



06-05 Enduring Archy Bench 11-22-12-2 Well name:

Enduring Resources, LLC Operator:

String type: Surface Project ID: 43-047-36793

Uintah County Location:

Environment: Minimum design factors: **Design parameters:** H2S considered? Collapse Collapse:

No 1.125 Surface temperature: 75 °F 8.400 ppg Design factor Mud weight: Bottom hole temperature: 103 °F Design is based on evacuated pipe.

1.40 °F/100ft Temperature gradient:

Minimum section length: 350 ft

Burst:

481 ft Design factor 1.00 Cement top:

Burst

Max anticipated surface

pressure: 1.760 psi Internal gradient: 0.120 psi/ft

Calculated BHP 2.000 psi

No backup mud specified.

873

1

Tension:

2000

8 Round STC: ·1.80 (J) 1.80 (J) 8 Round LTC: 1.60 (J) **Buttress:**

1.50 (J) Premium: Body yield: 1.50 (B)

Tension is based on buoyed weight. Neutral point: 1,748 ft

Re subsequent strings:

Injection pressure

42

Non-directional string.

Next setting depth: 7,676 ft Next mud weight: 10.200 ppg Next setting BHP: 4,067 psi Fracture mud wt: 19.250 ppg 2,000 ft Fracture depth:

2,000 psi

5.82 J

Nominal End True Vert Measured Drift Internal Run Segment Size Weight **Grade Finish** Depth Depth Diameter Capacity Sea Length (ft³) (in) (lbs/ft) (ft) (ft) (in) (ft) ST&C 2000 2000 7.972 96.3 24.00 1 2000 8.625 J-55 **Tension Tension Tension Burst** Run Collapse Collapse Collapse Burst **Burst** Design Design Strength Strength Load Strength Design Load Load Seq (psi) (Kips) **Factor Factor** (psi) (psi) **Factor** (Kips) (psi)

2950

1.48

Clinton Dworshak Prepared Utah Div. of Oil & Mining

1370

1.570

Phone: 801-538-5280 FAX: 801-359-3940

Date: June 27,2005 Salt Lake City, Utah

244

Remarks:

Collapse is based on a vertical depth of 2000 ft, a mud weight of 8.4 ppg The casing is considered to be evacuated for collapse purposes. Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

06-05 Enduring Archy Bench 11-22-12-2 Well name:

Enduring Resources, LLC Operator:

Production String type:

43-047-36793

Uintah County Location:

Design parameters:

Collapse Mud weight: 10.200 ppg Design is based on evacuated pipe.

Minimum design factors:

Collapse: Design factor

1.125

Environment: H2S considered?

Project ID:

No 75 °F Surface temperature: 182 °F Bottom hole temperature: 1.40 °F/100ft Temperature gradient:

Minimum section length: 1,500 ft

Burst:

Design lactor

1.00

Cement top:

Non-directional string.

Surface

Burst

Max anticipated surface

pressure: 3,146 psi 0.120 psi/ft Internal gradient: Calculated BHP 4,067 psi

No backup mud specified.

Tension:

1.80 (J) 8 Round STC: 1.80 (J) 8 Round LTC: Buttress: 1.60 (J) 1.50 (J) Premium:

1.50 (B) Body yield:

Tension is based on buoyed weight. 6,506 ft Neutral point:

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Internal Capacity (ft³)
1	7676	4.5	11.60	N- 80	LT&C	7676	7676	3.875	177.9
Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (Kips)	Tension Strength (Kips)	Tension Design Factor
1	4067	6350	1.561	4067	7780	1.91	75	223	2.96 J

Clinton Dworshak Prepared

Utah Div. of Oil & Mining

Phone: 801-538-5280

FAX: 801-359-3940

Date: June 27,2005 Salt Lake City, Utah

Remarks:

Collapse is based on a vertical depth of 7676 ft, a mud weight of 10.2 ppg. The casing is considered to be evacuated for collapse purposes. Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.



State of Utah

Department of Natural Resources

MICHAEL R. STYLER Executive Director

Division of Oil, Gas & Mining

JOHN R. BAZA
Division Director

JON M. HUNTSMAN, JR. Governor

GARY R. HERBERT Lieutenant Governor

July 11, 2005

Enduring Resources, LLC 475 17th Street, Suite 1500 Denver, Colorado 80202

Re:

Archy Bench 11-22-12-2 Well, 2347' FNL, 577' FWL, SW NW, Sec. 2, T. 11 South, R., Uintah County, Utah

Gentlemen:

Pursuant to the provisions and requirements of Utah Code Ann.§ 40-6-1 et seq., Utah Administrative Code R649-3-1 et seq., and the attached Conditions of Approval, approval to drill the referenced well is granted.

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date. The API identification number assigned to this well is 43-047-36793.

Sincerely,

Gil Hunt

Acting Associate Director

jc

Enclosures

cc:

Uintah County Assessor

SITLA

Bureau of Land Management, Vernal District Office

Operator: _		Enduring Resources, LLC						
Well Name	& Number		Arc					
API Numbe	r:	43-047-36793						
Lease:			ML-	<u>47075</u>				
Location:	SW NW	Sec.	_2_	T.	11 South	R.	22 East	

Conditions of Approval

1. General

Compliance with the requirements of Utah Admin. R. 649-1 *et seq.*, the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

2. Notification Requirements

The operator is required to notify the Division of Oil, Gas and Mining of the following actions during drilling of this well:

- 24 hours prior to cementing or testing casing
- 24 hours prior to testing blowout prevention equipment
- 24 hours prior to spudding the well
- within 24 hours of any emergency changes made to the approved drilling program
- prior to commencing operations to plug and abandon the well

The following are Division of Oil, Gas and Mining contacts and their work telephone numbers (please leave a voice mail message if the person is not available to take the call):

- Dan Jarvis at (801) 538-5338
- Carol Daniels at (801) 538-5284 (spud)

3. Reporting Requirements

All required reports, forms and submittals will be promptly filed with the Division, including but not limited to the Entity Action Form (Form 6), Report of Water Encountered During Drilling (Form 7), Weekly Progress Reports for drilling and completion operations, and Sundry Notices and Reports on Wells requesting approval of change of plans or other operational actions.

- 4. Compliance with the State of Utah Antiquities Act forbids disturbance of archeological, historical, or paleontological remains. Should archeological, historical or paleontological remains be encountered during your operations, you are required to immediately suspend all operations and immediately inform the Trust Lands Administration and the Division of State History of the discovery of such remains.
- 5. Compliance with the Conditions of Approval/Application for Permit to Drill outlined in the Statement of Basis. (Copy Attached)
- 6. State approval of this well does not supersede the required federal approval, which must be obtained prior to drilling.
- 7. Surface casing shall be cemented to the surface.



475 17th Street Suite 1500 Denver Colorado 80202 Telephone 303 573-1222 Fax 303 573 0461 43-047-36

August 9, 2005

CONFIDENTIAL

Utah Division of Oil, Gas and Mining 1594 West North Temple, Suite 1210 P. O. Box 145801 Salt Lake City, Utah 84114-5801

Attn.: Ms. Diana Whitney

RE: Cultural Resource Inventory Report # MOAC 05-196

Paleontological Reconnaissance Report # MOAC 05-197

Well Locations, Access Road and Pipelines Sec 2 T11S-R22E

Uintah County, Utah

Dear Ms. Whitney:

Enclosed are the referenced reports for the following proposed wells.

Archy Bench #11-22-11-2 Ar

Archy Bench #11-22-14-2

Archy Bench #11-22-23-2

Archy Bench #11-22-12-2

Archy Bench #11-22-21-2

Archy Bench #11-22-24-2

Archy Bench #11-22-13-2

Archy Bench #11-22-22-2

If any questions arise or additional information is required, please contact me at 303-350-5114.

Sincerely,

Phyllis Sobotik

Regulatory Specialist

/ps

Enclosures:

RECEIVED
AUG 1 2 2005

DIV. OF OIL, GAS & MINING

CULTURAL RESOURCE INVENTORY FOR ENDURING RESOURCES' FIVE PROPOSED WELL LOCATIONS ON BITTER CREEK, (ARCHY BENCH 11-22-11-2, 11-22-12-2, 11-22-13-2, 11-22-14-2, AND 11-22-24-2) IN T 11S, R22E, SEC. 2 UINTAH COUNTY, UTAH

RECEIVED
AUG 1 2 2005

DIV. OF OIL, GAS & MINING

CULTURAL RESOURCE INVENTORY FOR ENDURING RESOURCES' FIVE PROPOSED WELL LOCATIONS ON BITTER CREEK, (ARCHY BENCH 11-22-11-2, 11-22-12-2, 11-22-13-2, 11-22-14-2, AND 11-22-24-2) IN T 11S, R22E, SEC. 2 UINTAH COUNTY, UTAH

By:

Todd B. Seacat and Kate Freudenberg

Prepared For:

Bureau of Land Management Vernal Field Office

Prepared Under Contract With:

Enduring Resources, LLC 475 1^{-7th} Street, Suite 1500 Denver, Colorado 80202

Prepared By:

Montgomery Archaeological Consultants P.O. Box 147 Moab, Utah 84532

MOAC Report No. 05-196

27 June 2005

United States Department of Interior (FLPMA)
Permit No. 05-UT-60122

State of Utah Antiquities Project (Survey) Permit No. U-05-MQ-0614b

ABSTRACT

In June 2005, a cultural resource inventory was conducted by Montgomery Archaeological Consultants Inc. (MOAC) for Enduring Resources' proposed five Archy Bench wells and pipeline corridors: Archy Bench 11-22-11-2, 11-22-12-2, 11-22-13-2, 11-22-14-2, and 11-22-24-2. The project area occurs along Bitter Creek road west of Archy Bench. The legal description for the project area is Township 11 South, Range 22 East, Section 2. A total of 59.7acres were surveyed, all of which occurred on BLM land.

The cultural resource inventory resulted in locating one prehistoric site with a historic component (42Un4826) which is eligible for the National Register of Historic Places. Three other historic sites (42Un4827, 42Un4828, and 42Un4829) were located and are not eligible for the National Register of Historic Places.

In summary, the inspection of Enduring Resources' proposed five Archy Bench wells and pipeline corridors resulted in the documentation of four archaeological sites (42Un4826, 42Un4827, 42Un4828, and 42Un4829). Site 42Un4326 is considered eligible to the NRHP and should be avoided by the undertaking. To facilitate avoidance during the construction activities, it is recommended that a temporary fence be erected at the sites' boundary. In addition, the construction of Archy Bench 11-22-11-2 well location should be monitored by a qualified archaeologist. Based on these avoidance procedures, a recommendation of "no historic properties affected" pursuant to Section 106, CFR 800 is proposed for this project.

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APPEN SYSTE	NDIX A: INTERMOUNTAIN ANTIQUITIES COMPUTER EM (IMACS) SITE FORMS
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1.	Inventory Area of Enduring Resources' Proposed Archy Bench Five Well Locations and Pipeline Corridor on Bitter Creek in Uintah County, Utah
	LIST OF TABLE
1.	Enduring Resources' Proposed Five Archy Bench Wells and Pipeline Corridors on Bitter Creek

INTRODUCTION

A cultural resource inventory was conducted by Montgomery Archaeological Consultants Inc. (MOAC) in June 2005 for Enduring Resources' five proposed well locations. The well locations are designated: Archy Bench 11-22-11-2, 11-22-12-2, 11-22-13-2, 11-22-14-2 and 11-22-24-2. The project area occurs in the Archy Bench area on Bitter Creek, south of Vernal, Utah. The survey was implemented at the request of Ms. Phyllis Sobotik, Enduring Resources, LLC, Denver, Colorado. A total of 59.7 acres was inventoried for cultural resources on public land administered by the Bureau of Land Management (BLM), Vernal Field Office.

The objective of the inventory was to locate, document, and evaluate any cultural resources within the project area in order to comply with Section 106 of 36 CFR 800, the National Historic Preservation Act of 1966 (as amended). Also, the inventory was implemented to attain compliance with a number of federal and state mandates, including the National Environmental Policy Act of 1969, the Archaeological and Historic Conservation Act of 1972, the Archaeological Resources Protection Act of 1979, the American Indian Religious Freedom Act of 1978, and Utah State Antiquities Act of 1973 (amended 1990).

The fieldwork was performed on between June 11 and 13, 2005 by Todd B. Seacat (Project Archaeologist) and directed by Keith R. Montgomery (Principal Investigator) under the auspices of U.S.D.I. (FLPMA) Permit No. 05-UT-60122 and State of Utah Antiquities Permit (Survey) No. U-05-MQ-0614b issued to MOAC.

A file search was conducted by Marty Thomas of the Utah Division of State Historic Antiquities Section on June 15, 2005. The file search revealed that several previous inventories have been completed in the vicinity of the present project area. In 1980, Gordon and Kranzush Consultants inventoried a Natural Gas Piceline Company corridor revealing no archaeological sites (Gordon 1980). Again in 1980 this company surveyed a proposed pipeline in the area and located no cultural resources (Gordon1980). In 1984, Western Wyoming College conducted an inventory for the Natural Gas Pipeline Company; no cultural resources were found (Creasman, 1984). In 2002, Montgomery Archaeological Consultants (MOAC) completed a cultural resource inventory under contract with Buys and Associates for the Veritas DGC Land, Inc. Uintah Seismic Project. Of the 75 archaeological sites found or revisited, none lie near the current project area (Elkins and Montgomery 2002, U-02-MQ-0243b,p,s). This project identified 19 projects previously completed near the project area; however, no previously recorded sites were identified. In 2004, MOAC completed a cultural resource inventory of the proposed Seep Ridge West Expansion pipeline corridor for Miller, Dyer & Co. (Drake 2004) which resulted in the identification of three previously recorded sites (42Un2383, 42Un2570 and 42Un2761) and four new archaeological sites (42Un4387 through 42Un4390). None of the sites are near the current project area. In summary, while several projects have been completed near the project area, there are no previously recorded sites within the area.

DESCRIPTION OF PROJECT AREA

Enduring Resources' proposed five Archy Bench wells with associated access/pipeline corridors is situated on Bitter Creek, Uintah County, Utah. The legal description is Township 11 South, Range 22 E, Section 2 (Figure 1).

Table 1: Enduring Resources' Proposed Five Archy Bench Wells and Pipeline Corridors on Bitter Creek.

Well Location	Legal Locations	Pipeline	Cultural Resources
Archy Bench11-22-11-2	NW, NW Sec. 2 T11S, R22E	Pipeline: 1,400 ft.	42Un4826 42Un4827 42Un4828
Archy Bench 11-22-12-2	SW, NW Sec. 2 T11S, R22E	Pipeline: 1,050 ft.	None
Archy Bench 11-22-13-2	NW, SW Sec. 2 T11S, R22E	Pipeline: 420 ft.	42Un4829
Archy Bench 11-22-14-2	SW, SW Sec. 2 T11S, R22E	Pipeline: 940 ft.	None
Archy Bench 11-22-24-2	SE, SW Sec. 2 T11S, R22E	None	None

Environment

The study area lies within the Uinta Basin physiographic unit, a distinctly bowl-shaped geologic structure (Stokes 1986:231). The Uinta Basin ecosystem is within the Green River drainage, considered to be the northernmost extension of the Colorado Plateau. The geology is comprised of Tertiary age deposits which include Paleocene age deposits, and Eocene age fluvial and lacustrine sedimentary rocks. The Uinta Formation, which is predominate in the project area, occurs as eroded outcrops formed by fluvial deposited, stream laid interbedded sandstone and mudstone, and is known for its prolific paleontological localities.

Specifically, the project area is situated in the ephemeral drainage area between Cottonwood Wash and Willow Creek. Surface geology consists of hard pan residual soil armored with shale and sandstone pebbles. The elevation ranges between 5700 ft and 5900 ft a.s.l. The project occurs within the Upper Sonoran Desert Shrub Association which includes sagebrush, shadscale, greasewood, mat saltbush, snakeweed, rabbitbrush, prickly pear cactus, Indian ricegrass and other grasses. Modern disturbances include roads and oil/gas development.

Cultural Overview

The cultural-chronological sequence represented in the area includes the Paleoindian, Archaic, Fremont, Protohistoric, and Euro-American stages. The earliest inhabitants of the region are representative of the Paleoindian stage (ca. 12,000-8,000 B.P.), characterized by the adaptation to terminal Pleistocene environments and by the exploitation of big game fauna. The presence of Paleoindian hunters in the Uinta Basin region is implied by the discovery of Clovis and Folsom fluted points (ca.12,000 B.P. - 10,000 B.P.), as well as the more recent Plano Complex lanceolate points (ca. 10,000 B.P. - 7,000 B.P.). Near the project area, a variety of Plano Complex Paleoindian projectile points have been documented, including Goshen, Alberta, and Midland styles

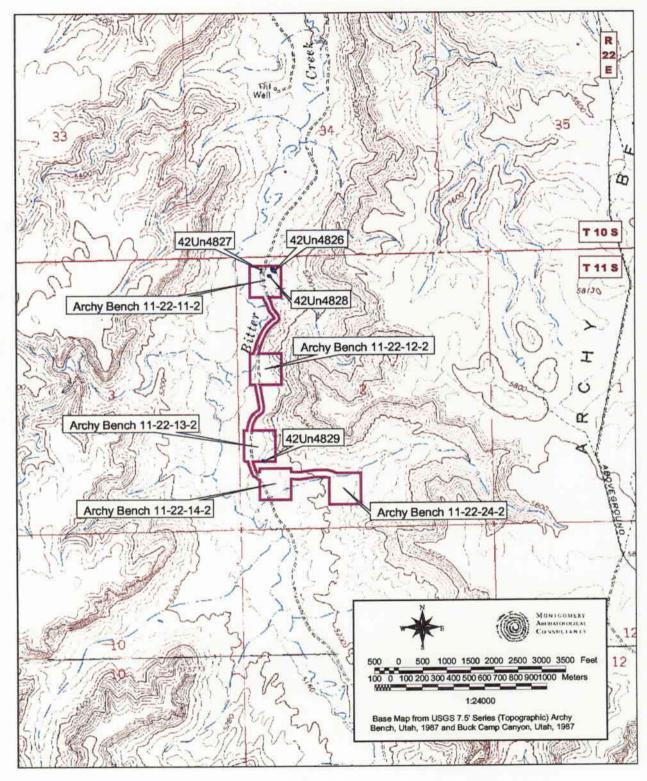


Figure 1. Inventory Area of Enduring Resources' Proposed Five Archy Bench Well Locations and Pipeline Corridor on Bitter Creek in Uintah County, Utah.

(Hauck 1998). No sites with evidence of Folsom lithic technology have previously been documented near the project area. Spangler (1995:332) reports that there are no sealed cultural deposits in association with extinct fauna or with chronologically distinct Paleoindian artifacts in Utah. Specifically in the Uinta Basin, few Paleoindian sites have been adequately documented, and most evidence of Paleoindian exploitation of the area is restricted to isolated projectile points recovered in nonstratigraphic contexts. Copeland and Fike (1998:21) argue that many areas in Utah are conducive to the herding behavior of megafauna, and that there is a high probability that many of the sites in Utah of unknown age are Paleoindian.

The Archaic stage (ca. 8,000 B.P.-1,500 B.P.) is characterized by the dependence on a foraging subsistence, with peoples seasonally exploiting a wide spectrum of plant and animal species in different ecozones. The shift to an Archaic lifeway was marked by the appearance of new projectile point types, and the development of the atlatl, perhaps in response to a need to pursue smaller and faster game (Holmer 1986). In the Uinta Basin, evidence of Early Archaic presence is relatively sparse compared to the subsequent Middle and Late Archaic periods. Early Archaic (ca. 6000-3000 B.C.) sites in the Basin include sand dune sites and rockshelters primarily clustered in the lower White River drainage (Spangler 1995:373). Early Archaic projectile points recovered from Uinta Basin contexts include Pinto Series, Humboldt, Elko Series, Northern Sidenotched, Hawken Side-notched, Sudden Side-notched and Rocker Base Side-notched points. Excavated sites in the area with Early Archaic components include Deluge Shelter in Dinosaur National Monument, and open campsites along the Green River and on the Diamond Mountain Plateau (Spangler 1995:374). The Middle Archaic (ca. 3000-500 B.C.) is characterized by improved climatic conditions and an increase in human population on the northern Colorado Plateau. Several stratified Middle Archaic sites have been excavated and dozens of sites have been documented in the Uinta Basin. Middle Archaic sites in the area reflect cultural influences from the Plains. although a Great Basin and/or northern Colorado Plateau influence is represented in the continuation of the Elko Series projectile points. Subsistence data from Middle Archaic components indicate gathering and processing of plants as well as faunal exploitation (e.g., mule deer, antelope. bighorn sheep, cottontail rabbit, muskrat, prairie dog, beaver and birds). The Late Archaic period (ca. 500 B.C.-A.D. 550) in the Uinta Basin is distinguished by the continuation of Elko Series projectile points with the addition of semi-subterranean residential structures at base camps. By about A.D. 100, maize horticulture and Rose Springs arrow points had been added to the Archaic lifeway. In the Uinta Basin, the earliest evidence of Late Archaic architecture occurs at the Cockleburr Wash Site (42Un1476) where a temporary structure, probably a brush shelter, yielded a date of 316 B.C. (Tucker 1986) The structure was probably associated with seasonal procurement of wild floral resources gathered along Cliff Creek.

The Formative stage (A.D. 500-1300) is recognized in the area as the Uinta Fremont as first defined by Marwitt (1970). This stage is characterized by a reliance upon domesticated corn and squash, increasing sedentism, and in its later periods, substantial habitation structures, pottery, and bow and arrow weapon technology. Based on the evidence from Caldwell Village, Boundary Village, Deluge Shelter, Mantles Cave and others, the temporal range of the Uinta Fremont appears to be from A.D. 650 to 950. This variant is characterized by shallow, saucer-shaped pithouse structures with randomly placed postholes and off-center firepits, some of which were adoberimmed. Traits considered unique or predominate to the Uinta Basin include calcite-tempered pottery, two-handled wide-mouth vessels, Utah type metates, the use of gilsonite for pottery repair, settlement on tops of buttes and large-shouldered bifaces (Shields 1970).

Archaeological evidence suggests that Numic peoples appeared in east-central Utah at approximately A.D. 1100 or shortly before the disappearance of Formative-stage peoples (Reed 1994). The archaeological remains of Numic-speaking Utes consist primarily of lithic scatters with low quantities of brown ware ceramics, rock art, and occasional wickiups. The brown ware ceramics appear to be the most reliable indicator of cultural affiliation, as Desert Side-notched and Cottonwood Triangular points were manufactured by other cultural groups beside the Ute (Horn, Reed, and Chandler 1994:130). The Ute appear to have been hunters and gatherers who exploited various fauna and flora resources. According to macrobotanical and faunal data from dated components, deer, elk, pronghorn, bison, and small game were acquired (Reed 1994:191). Plant materials thought to have been exploited for food include goosefoot, grass seeds, pinyon nuts, juniper berries, squawbush berries and leaves, hackberry seeds and possibly saltbush seeds, knotweed, chokecherry, and chickweed (Reed 1994:191).

On May 5, 1864 Congress passed a law confirming the 1861 executive order setting up the Uintah Reservation (Burton 1996:24). This treaty provided that the Ute people give up their land in central Utah and move within one year to the Uintah Reservation without compensation for loss of land and independence. The Uinta-ats (later called Tavaputs), PahVant, Tumpanawach, and some Cumumba and Sheberetch of Utah were gathered together at the Uintah agency during the late 1860s and early 1870s to form the Uintah Band (Burton 1996:18-19). In the 1880 treaty council the White River Utes, who had participated in the Meeker Massacre, were forced to sell all their land in Colorado and were moved under armed escort to live on the Uintah Reservation (Callaway, Janetski, and Stewart 1986:339). Shortly thereafter, 361 Uncompander Utes were forced to sell their lands, and were relocated to the Ouray Reservation adjacent to the southern boundary of the Uintah Reservation. This area embraced a tract of land to the east and south of the Uintah Reservation below Ouray lying east of the Green River. A separate Indian Agency was established in 1881 with headquarters at Ouray which was located across the river from where the first military post, Fort Thornburgh was located. The Department of War established Fort Thornburgh along the Green River in 1881 to maintain peace between the settlers of Ashley Valley.

The infantry who participated in the relocation of the Colorado Indians ensured that the Uncompanyer and White River Utes remained on the two reservations (Burton 1996:28). In the late 1880s, gilsonite was discovered in the Uintah Basin, and Congress was persuaded to apportion 7,040 acres from the reservation so the mineral could be mined.

The earliest recorded visit by Europeans to Utah was the Dominguez-Escalante expedition, of 1776. From the early 1820s to 1845, the Uinta Basin became an important part of the expanding western fur trade. Homesteading began in 1878 with Thomas Smart, one of the first white settlers to settle east of Ouray. In 1879, about forty cowboys and several large herds of cattle wintered on the White River. The winter of 1879-1880 saw the establishment of a settlement near the White River by several pioneers and their families including Ephraim Ellsworth, the Remingtons, and the Campbells. The person most responsible for organizing a permanent homesteading movement in Ouray Valley was William H. Smart, the brother of Thomas Smart, who became president of the Wasatch LDS Stake in 1901 (Burton 1998). When the Ute reservation was opened to white homesteaders in 1905, Smart organized several exploration trips into the area that later attracted many LDS families.

Initially, livestock was the main industry of white homesteaders in Uintah County. Two factors - free grass and the availability of water - influenced men to move their cattle into the county. Most of the land in the area was part of the public domain and no territory or state could tax it. Cattle were eventually brought up east as far as the Green River and then to the surrounding mountains. Large cattle herds had been coming to Brown's Park from Texas and other eastern areas since the early 1850s. The K Ranch was a large cattle operation owned by P.R. Keiser which brought many cowboys to the area. The ranch was located on the Utah-Colorado line with property in both states. Charley Hill, who came to Ashley Valley as a trapper for the Hudson Bay Company, started a cattle company on Hill Creek and Willow Creek in the Book Cliffs (Burton 1996:109). They later moved out when the government set this section aside for the Ouray Indian Agency. Other prominent men in the cattle industry included A.C. Hatch, Dan Mosby, and James McKee. Cattle rustling became an increasingly large problem as cattle herds grew, and conflict resulted between the small and large cattle companies. In 1912, the Uintah Cattle and Horse Growers Association was organized to protect the livestock ind Jstry from thieves and to issue an authorized brand book (Ibid: 110).

The sheep industry later became part of Uintah County's economic backbone, and contributed to the decline of the cattle industry. Sheep were first introduced to the valley during the winter of 1879 when Robert Bodily brought in sixty head (Burton 1996:111). Sheep were able to survive the hard winters much better than cattle. By the mid-1890s, more than 50,000 head of sheep were in the region; and the production of wool became very important. In 1897, C.S. Carter began building shearing corrals. In 1899, 500,000 pounds of wool were shipped from the county and sold for twelve and one-half cents per pound (Ibid:111). In 1906, the Uintah Railway Company built shearing pens on the Green River to encourage the shipping of wool by train; and in 1912, pens were built at Bonanza and Dragon. Beginning in the 1940's Mexican sheep-shearing crews and Greek sheepmen from the Price and Helper areas came into the area. The Taylor Grazing Act was passed in 1934, allotting specific areas or "districts" to stockmen for livestock grazing that required permits. This act was a forerunner of the Bureau of Land Management, which was established in 1946 and eventually assumed responsibility for the administration of grazing laws on public land (Burton 1996:115).

Uintah County is also known for its natural resources. Coal, copper, iron, asphalt, shale, and especially gilsonite, were important to the mining industry. When gilsonite was discovered in the Uinta Basin in the 1880s, Congress was persuaded to apportion 7,040 acres from the Ute reservation so the mineral could be mined. This area became known as "The Strip" and later developed into the townsite of Moffat (later renamed Gusher). Gilsonite is a light-weight lustrous black hydrocarbon mineral that can easily be crushed into a black-brown powder. It can be found in commercial quantities only in the Uinta Basin. The earliest use of the mineral was in buggy paints and beer-vat linings. Today it is used in over a hundred products ranging from printing inks to explosives and automobile body sealer and radiator paint (Burton 1998:343). Mining camps also sprang up near the Colorado line in Bonanza, Dragon, and Watson starting in about 1903. Many immigrants, including Greeks and Chinese, worked in the mines. Bonanza became one of the largest and most modern functioning mining camps in the area beginning in 1921 and reached its peak in 1937. It was chosen as the Barber gilsonite company headquarters, because it was near the largest deposits of gilsonite in the area. Miners from Dragon, Rainbow, and other neighboring communities were relocated to Bonanza.

SURVEY METHODOLOGY

An intensive pedestrian survey was performed for this project which is considered 100% coverage. At the proposed well location, a ten acre area centered on the center stake of the location was surveyed by the archaeologist walking parallel transects spaced no more than 10 m (30 ft) apart. The pipeline corridor was 100 ft wide, surveyed by walking parallel transects along the staked centerline, spaced no more than 10 m (30 ft) apart. Ground visibility was considered to be good. A total of 59.7 acres was inventoried for cultural resources on public land administered by the Bureau of Land Management (BLM), Vernal Field Office.

INVENTORY RESULTS

The inventory of Enduring Resources' five proposed well locations with associated access/ and pipeline corridors resulted in the documentation of four new archaeological sites (42Un4826, 42Un4827, 42Un4828, and 42Un4829).

Smithsonian Site No.: 42Un4826 Temporary Site No.: 05-196-01

Legal Description: NE/NW/NW of Sec. 2, T11S, R22E

NRHP Eligibility: Eligible, Criterion D

Description: This is a prehistoric and historic component site associated with a small rockshelter and seep spring. The site is situated at the base of an east-west trending sandstone cliff on the east side of Bitter Creek Canyon. The prehistoric component is comprised of lithic artifacts and a small petroglyph panel. The historic component consists of a light trash scatter, historic graffiti, and a dry-laid masonry sheep enclosure.

Prehistoric cultural material consists of a late stage biface fragment, seven flakes, one piece of angular debris, and one quartzite manc fragment. Tool stone is dominated by chert/chalcedony with one piece of igneous rock. Debitage consists of tertiary and secondary flakes which suggests that latter stages of tool manufacture were occurring on site. One burned rock feature (Fea. B) as well as scattered fire-cracked rock indicate the presence of thermal features. This coupled with a mano fragment may indicate domestic activities such as food preparation were also occurring on site. At the northwestern edge of the site is a small petroglyph panel (Fea. A). It consists of a X motif, a anthropomorphic stick figure, a vertical line, and a horizontal line with a dot. The rock art appears to be Numic (probably Ute) based on the type of elements (Cole 1990). Finally, the rockshelter (Fea. E) which is fairly large but wet due to the seep spring may not have been inhabited although some potential midden deposits could occur around the opening.

The historic component consists of a light scatter of historic trash associated with historic inscriptions, and a dry-laid masonry enclosure. The inscriptions (Fea. D) occur on a large sandstone boulder at the southeastern end of the site and consist of the following names, initials, and dates: C. Hoel June. 17th 1912, J.P.T b/ '17 ", MM, T, A, KA and TOM LOPEZ 2.17 1963. Historic artifacts include amethyst bottle glass, aqua bottle glass, clear bottle glass, four external friction Prince Albert tobacco tins, 11 open top cans, five hole-in-top milk cans, a lard pail, a meat can, galvanized sheet metal, yellow glazed earthenware sherds, porcelain sherds, and one shoe sole. Diagnostic materials consist of amethyst glass (pre-1920), aqua glass (pre-1930), a type 9 evaporated milk can (ca. 1915-1930), an AHK bottle trademark (post-1944) and an ABGM Co. bottle trademark (1886-1928). The masonry wall or enclosure (Fea. C) consists of stacked tabular sandstone about three to four tier high and incorporating in-place sandstone boulders to make an area about 3 x 3 m square. This "structure" is interpreted as a lambing pen.

Smithsonian Site No.: 42Un4827 Temporary Site No.: 05-196-02

Legal Description: NW/NW/NW of Sec. 2, T11S, R22E

NRHP Eligibility: Not Eligible

<u>Description:</u> This is a small historic trash scatter located on a bench east of Bitter Creek. Cultural materials include eight hole-in-top cans, 10 open top cans, and a galvanized metal wash basin. No features were observed. Diagnostic materials are sparse and consist of seven type 9 hole-intop evaporated milk cans which are thought to date between 1915-1930. Therefore, it is likely this site dates to the first third of the 20th century, probably related to livestock tending or simply trash discarded along the Bitter Creek Canyon road.

Smithsonian Site No.: 42Un4828 Temporary Site No.: 05-196-03

Legal Description: NE/NW/NW of Sec. 2, T11S, R22E

NRHP Eligibility: Not Eligible

Description: This is a trash scatter situated on the canyon floor east of Bitter Creek. Cultural materials are dominated by various tin cans although a small quantity of clear glass possibly from a drinking glass was also observed. Approximately 50 tin cans are scattered across the site with perhaps 25 to 35 in a 5 x 3 m concentration near the center. These include two hole-in-cap cans (pre-1940), seven open top cans and can tops marked "Sanitary" (1904-1908), five marked with a "C" (pre-1934?), one Towle's Log Cabin syrup can (1909-1955), and a short coffee can. In addition, 10 type 9 hole-in-top milk cans (1915-1930) and one type 16 milk can (1931-1948) also occur on site. The site appears to represent two discard episodes the earliest between 1904 and 1908 and several later ones dating from 1915 to 1948. Based on the type of artifacts, the locality most likely functioned as short-term range related camps.

Smithsonian Site No.: 42Un4829 Temporary Site No.: 05-196-04

Legal Description: NE/SW/SW of Sec. 2, T11S, R22E

NRHP Eligibility: Not Eligible

<u>Description:</u> This is a small sparse trash scatter situated on the crest and slope of a ridge along the east side of Bitter Creek. Cultural materials consist of 13 tin cans and one broken beer bottle. Tin cans include five open top food cans, four hole-in-top evaporated milk cans, one external friction, hinged lid pocket tobacco tin, a paint can, one open top juice can, and a lard can lid. Diagnostic artifacts consists of the beer bottle marked with a WF & S trademark (Wm. Franzen & Son 1900-1921) and type 9 (1915-1930) and type 19 (1930-1975) milk cans. The site probably functioned as a short-term camp related to livestock tending. Dated materials indicate the site was probably occupied in the early-middle 20th century between 1915 and 1935.

NATIONAL OF HISTORIC PLACES EVALUATION

The National Register Criteria for Evaluation of Significance and procedures for nominating cultural resources to the National Register of Historic Places (NRHP) are outlined in 36 CFR 60.4 as follows:

The quality of significance in American history, architecture, archaeology, and culture is present in districts, sites, buildings, structures, and objects of State and local importance that possess integrity of locatior, design, setting, material, workmanship, feeling, and association, and that they:

- a)...are associated with events that have made a significant contribution to the broad patterns of our history; or
- b)...are associated with the lives of persons significant to our past; or
- c)...embody the distinctive characteristics of a type, period, or method of construction; or that represents the work of a master, or that possess high artistic values, or that represent a significant and distinguishable entity whose components may lack individual distinction; or
- d)...have yielded or may be likely to yield information important in prehistory or history.

The cultural resource inventory resulted in the documentation of four new archaeological sites. Only the prehistoric and historic component site (42Un4826) is recommended as eligible to the NRHP under Criteria D. The prehistoric component could address such research topics as chronology, subsistence strategies, site chronology, stone tool technology, and site function. The historic component exhibits a feature and a variety of cultural materials. There is also potential for subsurface cultural remains. Historic trash scatters 42Un4827, 42Un4828, and 42Un4829 are recommended as not eligible because they are unlikely to contribute to the history of the area. These sites lack artifact density, diversity, features, and fail to possess subsurface cultural material.

CONCLUSIONS AND RECOMMENDATIONS

The cultural resource inventory of Enduring Resources' five proposed well locations with associated pipeline/access corridors resulted in the documentation of four new archaeological sites (42Un4826, 42Un4827, 42Un4828, and 42Un4829). Site 42Un4826 is considered eligible to the NRHP and should be avoided by the undertaking. To facilitate avoidance during the construction activities, it is recommended that a temporary fence be erected at the sites' boundary. In addition, the construction of Archy Bench 11-22-11-2 well location should be monitored by a qualified archaeologist. Based on these avoidance procedures, a recommendation of "no historic properties affected" is proposed for the undertaking pursuant to Section 106, CFR 800.

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APPENDIX A:

INTERMOUNTAIN ANTIQUITY COMPUTER SYSTEM (IMACS) SITE INVENTORY FORMS

On File At:

Bureau of Land Management Vernal Field Office and Division of State History Salt Lake City, UT

Paleontological Reconnaissance Report

Enduring Resources Proposed Well Pads, Access Roads and Pipeline Corridors for Archy Bench #11-22-11-2, #11-22-12-2, #11-22-13-2, #11-22-14-2, #11-22-24-2 (Sec. 2, T 11 S, R 22 E); Red Wash #9-24-23-30, #9-24-34-30 (Sec. 30 T 9 S, R 24 E); Red Wash #9-24-24-23 (Sec. 23, T 9 S, R 24 E); Southam Canyon #9-24-41-34 (Sec. 34, T 9 S, R 24 E); Southam Canyon #9-24-23-36, #9-24-24-36 (Sec. 36, T 9 S, R 24 E); Southam Canyon #10-25-11-6 (Sec. 6, T 10 S, R 25 E)

Archy Bench, Bonanza, Red Wash SE, and Southam Canyon Topographic Quadrangles Uintah County, Utah

July 19, 2005

Prepared by Andrew W. Stanton Paleontologist for Montgomery Archaeological Consultants Box 147, 322 East 100 South Moab, Utah 84532

INTRODUCTION

At the request of Phyllis Sobotik, of Enduring Resources, LLC, and authorized by John Mayers of the BLM Vernal Field Office and James Kirkland of the Office of the State Paleontologist a paleontological reconnaissance survey of Enduring's proposed Well Pads, Access Roads and Pipeline Corridors for Archy Bench #11-22-11-2, #11-22-12-2, #11-22-13-2, #11-22-14-2, #11-22-24-2 (Sec. 2, T 11 S, R 22 E); Red Wash #9-24-23-30, #9-24-34-30 (Sec. 30, T 9 S, R 24 E); Red Wash #9-24-24-23 (Sec. 23, T 9 S, R 24 E); Southam Canyon #9-24-21-34 (Sec. 34, T 9 S, R 24 E); Southam Canyon #9-24-23-36, #9-24-24-36 (Sec. 36, T 9 S, R 24 E); Southam Canyon #10-25-11-6 (Sec. 6, T 10 S, R 25 E) was conducted by Stephen Sandau June 8-11, 2005. The survey was conducted under the Utah BLM Paleontological Resources Use Permit #UT-S-05-33 and the Utah Paleontological Investigations Permit #04-345. This survey to collect any paleontological materials discovered during the construction processes in danger of damage or destruction was done to meet requirements of the National Environmental Policy Act of 1969, and other State and Federal laws and regulations that protect paleontological resources.

FEDERAL AND STATE REQUIREMENTS

As mandated by the US Department of the Interior Bureau of Land Management, paleontologically sensitive geologic formations in BLM lands that are considered for exchange or may be impacted due to ground disturbance require paleontological evaluation. This requirement complies with:

- 1) The National Environmental Policy Act of 1969 (NEPA) (42 U.S.C. 4321.et. Seq., P.L. 91-190);
- 2) The Federal Land Policy and Management Act (FLPMA) of 1976 (90 Stat. 2743, 43 U.S.C. § 1701-1785, et. Seq., P.L. 94-579).
- 3) The National Historic preservation Act.16 U.S.C. § 470-1, P.L. 102-575 in conjunction with 42 U.S.C. § 5320; and
- 4) The Utah Geological Survey. S. C. A.: 63-73-1. (1-21) and U.C.A.: 53B-17-603

Under policy dictated by the BLM Manual and Handbook H-8270-1 (July, 1998) formations are ranked according to their paleontological potential:

- Condition 1 is applied to those areas known to contain fossil localities, and special consideration of the known resources is in need of evaluation.
- Condition 2 is applied to areas that have exposures of geologic rock units known to have produced fossils elsewhere.
- Condition 3 is applied to areas unlikely to produce fossils based on surficial geology.

Although these guidelines apply mostly to vertebrate fossils on lands under the direction of the BLM, they are equally designed to help protect rare plant and invertebrate fossils and will be used here with reference to State managed lands. It should be noted that many fossils, though common and unimpressive in and of themselves, can be important paleo-environmental, depositional, and chronostratigraphic indicators.

LOCATION

This project covers wells on land managed by the State of Utah Trust Lands Administration (SITLA) and on BLM land. The well pads and proposed pipeline corridor for Enduring's Archy Bench #11-22-11-2, #11-22-12-2, #11-22-13-2, #11-22-14-2, #11-22-24-2 (Sec. 2, T 11 S, R 22 E) are four to five miles south by southwest of the White River, and some fifteen miles south west of Bonanza, UT. Red Wash #9-24-23-30, #9-24-34-30 (Sec. 30, T 9 S, R 24 E) lies approximately 3 miles north of the White River and four to five miles west of Bonanza, UT; Red Wash #9-24-24-23 (Sec. 23, T 9 S, R 24 E) is on the southwestern outskirts of Bonanza, UT; Southam Canyon #9-24-41-34 (Sec. 34, T 9 S, R 24 E) is about one and one half miles south by southwest of Bonanza; Southam Canyon #9-24-23-36, #9-24-24-36 (Sec. 36, T 9 S, R 24 E) and Southam Canyon #10-25-11-6 (Sec. 6, T 10 S, R 25 E) are approximately three miles south of Bonanza, UT and one to one and a half miles north of the White River. The project areas can be found on the Archy Bench, Bonanza, Red Wash SE, and Southam Canyon Topographic Quadrangles, Uintah County, Utah

PREVIOUS WORK

The basins of western North America have long produced some of the richest fossil collections in the world. Early Cenozoic sediments are especially well represented throughout the western interior. Paleontologists started field work in Utah's Uinta Basin as early as 1870 (Betts, 1871; Marsh, 1871, 1875a, 1875b). The Uinta Basin is located in the northeastern corner of Utah and covers approximately 31,000 sq. km (12,000 sq. miles) and ranges in elevation from 1,465 to 2,130 m (4,800 to 7,000 ft) (Marsell, 1964; Hamblin et al., 1987). Middle to late Eocene time marked a period of dramatic change in the climate, flora, (Stucky, 1992), and fauna (Black and Dawson, 1966) of North America.

GEOLOGICAL AND PALEONTOLOGICAL OVERVIEW

Early in the geologic history of Utah, some 1,000 to 600 Ma, an east-west trending basin developed creating accommodation for 25,000 feet of siliclastics. Uplift of that filled-basin during the early Cenozoic formed the Uinta Mountains (Rasmussen et al., 1999). With the rise of the Uinta Mountains the asymmetrical synclinal Uinta Basin is thought to have formed through the effects of down warping in connection with the uplift. Throughout the Paleozoic and Mesozoic, deposition fluctuated between marine and non-marine environments laying down a thick succession of sediments in the area now occupied by the Uinta Basin. Portions of these beds crop out on the margins of the basin due to tectonic events occurring during the late Mesozoic.

Early Tertiary Uinta Basin sediments were deposited in alternating lacustrine and fluvial environments. Large shallow lakes periodically covered most of the basin and surrounding areas during early to mid Eocene time (Abbott, 1957). These lacustrine sediments show up in the western part of the basin, dipping 2-3 degrees to the northeast and are lost in the subsurface on the east side. The increase of cross-bedded coarse-grained sandstone and conglomerates

preserved in paleo-channels indicates a transition to a fluvial environment toward the end of the epoch.

Four Eocene formations are recognized in the Uinta Basin: the Wasatch, Green River, Uinta, and Duchesne River, respectively (Wood, 1941). The Uinta Formation is subdivided into two lithostratigraphic units namely: the Wagonhound Member (Wood, 1934), formerly known as Uinta A and B (Osborn, 1895, 1929), and the Myton Member previously regarded as the Uinta C.

Within the Uinta Basin in northeast Utah, the Uinta Formation in the western part of the basin is composed primarily of lacustrine sediments inter-fingering with over-bank deposits of silt and mudstone and westward flowing channel sands, fluvial clays, and muds in the east (Bryant et al, 1990; Ryder et al, 1976). Stratigraphic work done by early geologists and paleontologists within the Uinta Formation focused on the definition of rock units and attempted to define a distinction between early and late Uintan faunas (Riggs, 1912; Peterson and Kay, 1931) biostratigraphy (Flynn, 1986; Prothero, 1996). Well known for its fossiliferous nature and distinctive mammalian fauna of mid-Eocene Age, the Uinta Formation is the type formation for the Uintan Land Mammal Age (Wood et al, 1941).

The Duchesne River Formation of the Uinta Basin in northeastern Utah is composed of a succession of fluvial and flood plain deposits composed of mud, silt, and sandstone. The source area for these late Eocene deposits is from the Uinta Mountains indicated by paleocurrent data (Anderson and Picard, 1972). In Peterson's (1931c) paper, the name "Duchesne Formation" was applied to the formation, and it was later changed to the "Duchesne River Formation" by Kay (1934). The formation is divided up into four members: the Brennan Basin, Dry Gulch Creek, Lapoint, and Starr Flat (Anderson and Picard, 1972). Debates concerning the Duchesne River Formation, as to whether its age was late Eocene or early Oligocene, have surfaced throughout the literature of the last century (Wood et al., 1941; Scott 1945). Recent paleomagnetostratigraphic work (Prothero, 1996) shows that the Duchesne River Formation is late Eocene in time.

FIELD METHODS

In order to determine if the proposed pipeline corridors, access roads and well pads from this project contained any paleontological resources, a brief reconnaissance survey was performed. An on-site observation of the proposed areas undergoing surficial disturbance is necessary, because judgments made from topographic maps alone are often unreliable. Areas of low relief have potential to be erosional surfaces with the possibility of bearing fossil materials rather than surfaces covered by unconsolidated sediment or soils.

When found within the proposed construction areas, outcrops and erosional surfaces were checked to determine if fossils were present and to assess needs. Careful effort is made during surveys to identify and evaluate significant fossil materials or fossil horizons when they are found. Microvertebrates, although rare, are occasionally found in anthills or upon erosional surfaces, and are of particular importance.

PROJECT AREA

The project site is situated in the Wagonhound Member (Uinta A & B) of the Uinta Formation.

Archy Bench #11-22-11-2

The proposed well pad lies adjacent to an existing access road in the NW/NW quarter-quarter section of Sec. 2, T 11 S, R 22 E (Figure 1). A proposed pipeline follows the path of this road and ties into and existing pipeline in the SW/SW quarter-quarter section of Sec. 2, T 11 S, R 22 E. The proposed pad and pipeline rest on sage brush covered soil and colluvium. The surrounding slopes and ridges to the east consist of interbedded green, purple and tan colored silt and sandstone. Ledges of tan sandstone and silt lie to the west of the proposed well pad. No fossils were found at this site.

Archy Bench #11-22-12-2

The proposed well pad lies adjacent to an existing access road in the SW/NW quarter-quarter section of Sec. 2, T 11 S, R 22 E (Figure 1). The proposed well pad rests on soil and colluvium covered ground. Cliffs of tan sandstone lie to the east of the pad area. No fossils were found in the proposed construction site.

Archy Bench #11-22-13-2

The proposed well pad lies adjacent to an existing access road in the NW/SW quarter-quarter section of Sec. 2, T 11 S, R 22 E (Figure 1). The ground is covered with sandy soil and colluvium, and is vegetated with brush. No fossils were found at this locality.

Archy Bench #11-22-14-2

The proposed well pad lies adjacent to an existing access road in the SW/SW quarter-quarter section of Sec. 2, T 11 S, R 22 E (Figure 1). The area consists of soil covered ground and is vegetated with brush. No fossils were found in the proposed construction site.

Archy Bench #11-22-24-2

The proposed well pad is in the SE/SW quarter-quarter section of Sec. 2, T 11 S, R 22 E (Figure 1). The proposed access and pipeline tie in at the SW/SW quarter-quarter section of Sec. 2, T 11 S, R 22 E. The area consists of soil covered ground, and an outcrop of tan sandstone and siltstone lies off the eastern edge of the pad. No fossils were found within the proposed construction site.

Red Wash #9-24-23-30

The proposed access road and pipeline begin in the NW/SE quarter-quarter section and end in the NE/SW quarter-quarter section of Sec. 30, T 11 S, R 22 E (Figure 2). The area consists of soil covered ground vegetated with grass and low brush. No fossils were found in the proposed construction area.

Red Wash #9-24-34-30

The proposed short access road, pipeline and well pad lie in the SW/SE quarter-quarter section of Sec. 30, T 9 S, R 24 E (Figure 2). The ground is soil covered and vegetated with brush and grass. No fossils were found at this site.

BMania 34 Red Wash #9-24-24-23

The proposed well pad and short access are located in the SW/SE quarter-quarter section of Sec. 23, T 9 S, R 24 E, and the proposed long pipeline begins in the NW/NE quarter-quarter section of Sec. 27, T 9 S, R 24 E, following the path of an existing road, and then follows the path of the proposed access road (Figure 3). The area consists of rolling hills of soil covered ground vegetated with sage and grass. No fossils were found at this site.

Southam Canyon #9-24-41-34

The proposed well pad lies in the NE/NE quarter-quarter section of Sec. 34, T 9 S, R 24 E. The proposed access road begins in the NW/NE quarter-quarter section of Sec. 34, T 9 S, R 24 E, and the proposed long pipeline begins in the NW/NE quarter-quarter section of Sec. 27, T 9 S, R 24 E, follows the path of an existing road, the follows the path of the proposed access road (Figure 3). The ground is covered with soil and is vegetated with sage. Along the proposed access road are some exposures of tan sandstone with brown concretions, along with green silt and mudstone. No fossils were found in the proposed construction area.

Southam Canyon #9-24-23-36

The proposed well pad, short access road and pipeline lie in the NE/NW quarter-quarter section of Sec. 36, T 9 S, R 24 E. The proposed access road and pipeline tie into the proposed access and pipeline for Southam Canon #9-24-24-36 (Figure 4). The area consists of soil covered ground with colluvium and some exposures of tan sandstone. No fossils were found in the proposed construction site.

Southam Canyon #9-24-24-36

The long proposed access road and pipeline begin in the SE/NE quarter-quarter section of Sec. 36, T 9 S, R 24 E, head southwest and enter the proposed well pad from the northwest in the SE/SW quarter-quarter section of Sec. 36, T 9 S, R 24 E (Figure 4). The area around the proposed access road has outcrops of tan sandstone containing petrified wood. No other fossils were found in the proposed construction area.

Southam Canyon #10-25-11-6

The proposed well pad and access road lie in the NW/NW quarter-quarter section of Sec. 6, T 10 S, R 25 E. The 2,900 ft. access enters the well pad from the south (Figure 4). To the northeast of the proposed well pad are outcrops of tan sandstone, and along the western flank of the southern extremity of access road are tan silt and shale in which was found fossils plant material and fish scales.

SURVEY RESULTS

WELL	GEOLOGY	PALEONTOLOGY
Archy Bench #11-22-11-2 (Sec. 2, T 11 S, R 22 E)	The pad and pipeline rest on sage brush covered soil and colluvium. The surrounding slopes and ridges to the east consist of interbedded green, purple and tan colored silt and sandstone. Ledges of tan sandstone and silt lie to the west of the proposed well pad.	No fossils were found. Condition 3.
Archy Bench #11-22-12-2 (Sec. 2, T 11 S, R 22 E)	The proposed well pad rests on soil and colluvium covered ground. Cliffs of tan sandstone lie to the east of the pad area.	No fossils were found. Condition 3.
Archy Bench #11-22-13-2 (Sec. 2, T 11 S, R 22 E)	The ground is covered with sandy soil and colluvium.	No fossils were found. Condition 3.
Archy Bench #11-22-14-2 (Sec. 2, T 11 S, R 22 E)	The area consists of soil covered ground.	No fossils were found. Condition 3.
Archy Bench #11-22-24-2 (Sec. 2, T 11 S, R 22 E)	The area consists of soil covered ground, and an outcrop of tan sandstone and siltstone lies off the eastern edge of the pad.	No fossils were found. Condition 3.
Red Wash #9- 24-23-30 (Sec. 30, T 9 S, R 24 E)	The area consists of soil covered ground.	No fossils were found. Condition 3.
Red Wash #9- 24-34-30 (Sec. 30, T 9 S, R 24 E)	The ground is soil covered.	No fossils were found. Condition 3.
Red Wash # 9-24-24-23 (Sec. 23, T 9 S, R 24 E)	The area consists of rolling hills of soil covered ground.	No fossils were found. Condition 3.
Southam Canyon #9-24- 41-34 (Sec. 34, T 9 S, R 24 E)	The ground is covered with soil. Along the proposed access road are some exposures of tan sandstone with brown concretions, along with green silt and mudstone.	No fossils were found. Condition 3.

Southam	The area consists of soil covered ground with	No fossils were found.
Canyon #9-24-	colluvium and some exposures of tan sandstone.	Condition 3.
23-36 (Sec. 36,		
T 9 S, R 24 E)		
Southam	The area around the proposed access road has	Plant fossils were found.
Canyon #9-24-	outcrops of tan sandstone containing petrified	Condition 2.
24-36 (Sec. 36,	wood.	
T 9 S, R 24 E)		
Southam	To the northeast of the proposed well pad are	Plant impressions and
Canyon	outcrops of tan sandstone, and along the western	fish scales were found.
#10-25-11-6	flank of the southern extremity of access road are	Condition 2.
(Sec. 6, T 10 S,	tan silt and shale in which was found fossils plant	
R 25 E)	material and fish scales.	
Í		

RECOMMENDATIONS

The reconnaissance survey executed for Enduring's proposed Well Pads, Access Roads and Pipeline Corridors for Archy Bench #11-22-11-2, #11-22-12-2, #11-22-13-2, #11-22-14-2, #11-22-24-2 (Sec. 2, T 11 S, R 22 E); Red Wash #9-24-23-30, #9-24-34-30 (Sec. 30, T 9 S, R 24 E); Red Wash #9-24-24-23 (Sec. 23, T 9 S, R 24 E); Southam Canyon #9-24-41-34 (Sec. 34, T 9 S, R 24 E); Southam Canyon #9-24-23-36, #9-24-24-36 (Sec. 36, T 9 S, R 24 E); Southam Canyon #10-25-11-6 (Sec. 6, T 10 S, R 25 E) was brief.

The localities for Southam Canyon #9-24-24-36 (Sec. 36, T 9 S, R 24 E) and #10-25-11-6 (Sec. 6, T 10 S, R 25 E) both yielded plant fossils, the latter also contained fish scales. No monitoring of these sites is recommended unless more substantial fossil material is found.

The staked areas at the remainder of the sites, namely Archy Bench #11-22-11-2, #11-22-12-2, #11-22-13-2, #11-22-14-2, #11-22-24-2 (Sec. 2, T 11 S, R 22 E); Red Wash #9-24-23-30, #9-24-34-30 (Sec. 30, T 9 S, R 24 E); Red Wash #9-24-24-23 (Sec. 23, T 9 S, R 24 E); Southam Canyon #9-24-41-34 (Sec. 34, T 9 S, R 24 E); Southam Canyon #9-24-23-36 (Sec. 36, T 9 S, R 24 E) showed no signs of fossil materials inside of the proposed construction sites. Therefore, no credible reason to limit construction within the staked areas was found.

However, if vertebrate fossil(s) are found during construction of any of the other locations covered in this report, recommendations are that a paleontologist is immediately notified in order to collect fossil materials in danger of being destroyed. Any vertebrate fossils found should be carefully moved outside of the construction areas to be checked by a permitted paleontologist.

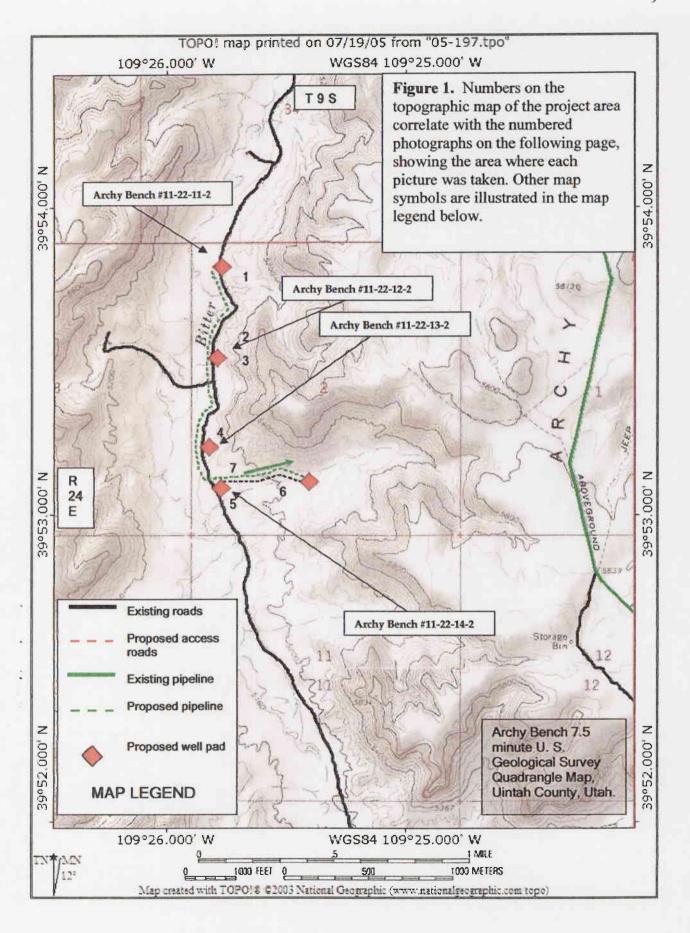
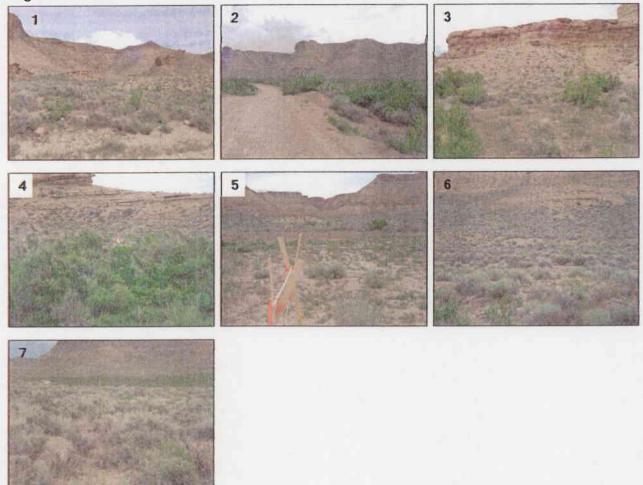


Figure 1 continued...



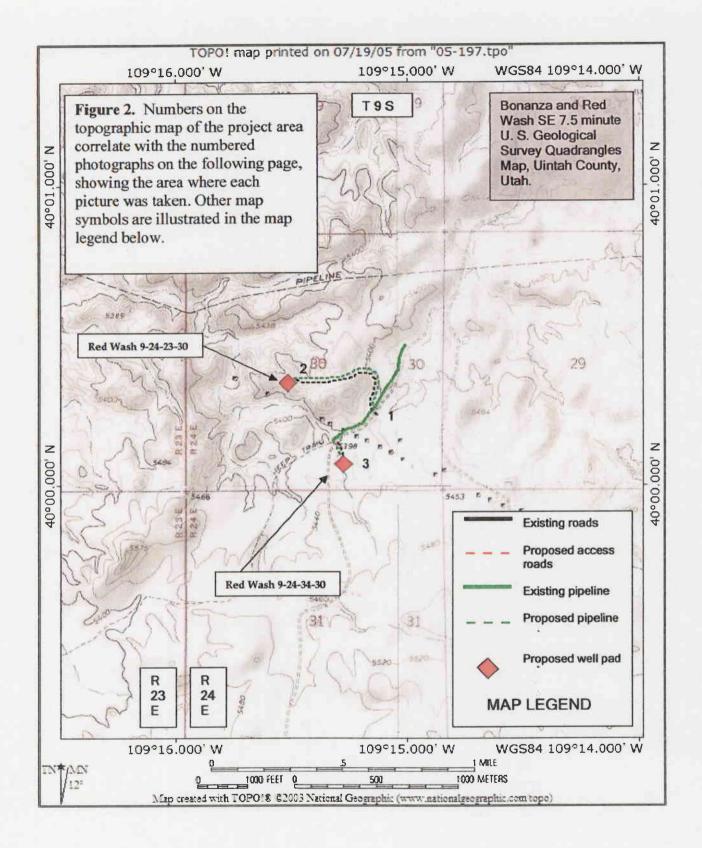


Figure 2 continued...



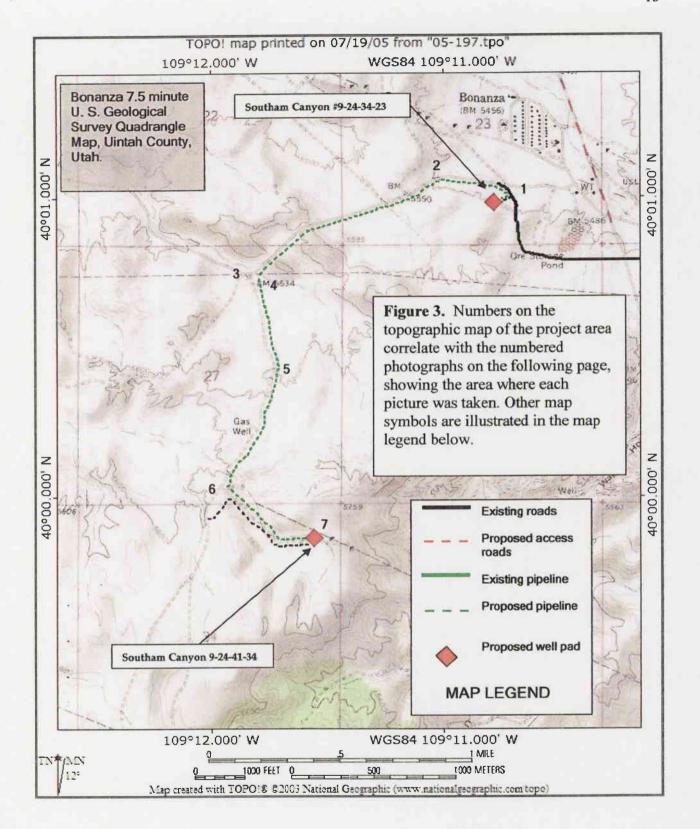
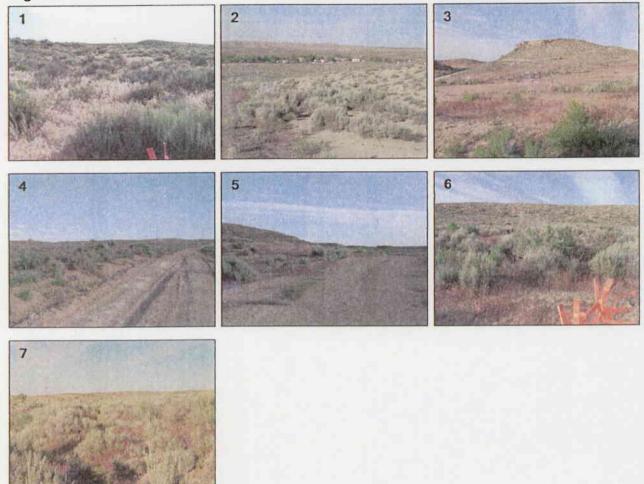


Figure 3 continued...



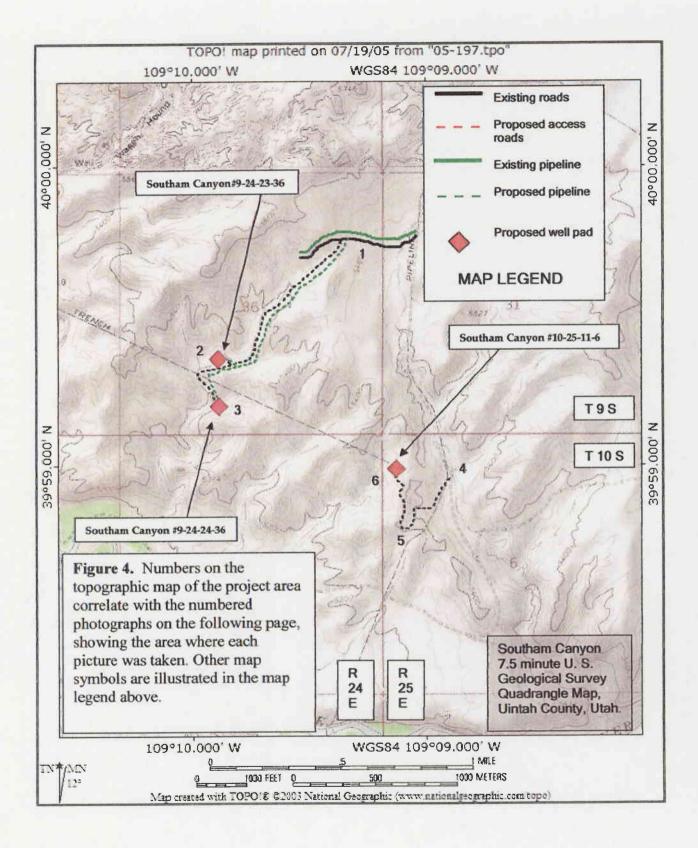
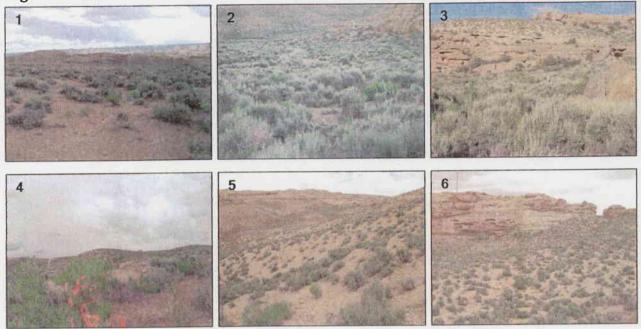


Figure 4 continued...



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STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS AND MINING	5. LEASE DESIGNATION AND SERIAL NUMBER: ML-47075 6. IF INDIAN, ALLÖTTEE OR TRIBE NAME:
SUNDRY NOTICES AND REPORTS ON WELLS	n/a 7. UNIT OF CA AGREEMENT NAME:
Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.	n/a
1. TYPE OF WELL OIL WELL GAS WELL OTHER	8: WELL NAME and NUMBER: Archy Bench 11-22-12-2
2, NAME OF OPERATOR:	9. API NUMBER: 4304736793
Enduring Resources, LLC 3. ADDRESS OF OPERATOR: 475 17th Street, Suite 1500 OFF Denver STATE CO ZIP 80202 PHONE NUMBER: (303) 350-5114	10. FIELD AND POOL, OR WILDCAT: Bitter Creek
475 17th Street, Suite 1500 CITY Denver STATE CO ZIP 80202 (303) 350-5114	
FOOTAGES AT SURFACE: 2347' FNL - 577' FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SWNW 2 11S 22E S	STATE: UTAH
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPO	ORT, OR OTHER DATA
TYPE OF SUBMISSION TYPE OF ACTION Deepen Deepen	REPERFORATE CURRENT FORMATION
NOTICE OF INTENT	SIDETRACK TO REPAIR WELL
(Submit in Duplicate)	TEMPORARILY ABANDON
5/23/2006 CHANGE TO PREVIOUS PLANS OPERATOR CHANGE	TUBING REPAIR
CHANGE TUBING PLUG AND ABANDON.	VENT OR FLARE
SUBSEQUENT REPORT CHANGE WELL NAME PLUG BACK	WATER DISPOSAL
(Submit Original Form Only) CHANGE WELL STATUS PRODUCTION (START/RESUME) Date of work completion:	WATER SHUT-OFF
Date of work completion: COMMINGLE PRODUCING FORMATIONS RECLAMATION OF WELL SITE CONVERT WELL TYPE RECOMPLETE - DIFFERENT FORMATION	OTHER: Request for APD Extension
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, voluments of the complete of the co	
Enduring Resources, LLC respectfully request an extension to the expiration date of the FROM: 7-11-2006 TO: 7-11-2007 Approved by the Utah Division of Oil, Gas and Mining	
COPY SENT TO CREPATOR Date: Date: 9-1-500 Initials: 4-1-500 By:	
NAME (PLEASE PRINT) Alvin R. (AI) Arlian TITLE Landman - Reg	gulatory Specialist
SIGNATURE 5/23/2006	

(This space for State use only)

(5/2000)

RECEIVED

MAY 2 6 2006

(See Instructions on Reverse Side)

Application for Permit to Drill Request for Permit Extension Validation

Validation
(this form should accompar y the Sundry Notice requesting permit extension)

DIV. OF OIL, GAS & MINING

	DEPARTMENT OF NATURAL RESOUR DIVISION OF OIL, GAS AND MI	RCES INING		5. LEASE DESIGNATION AND SERIAL NUMBER: ML-47075
SUNDR	Y NOTICES AND REPORTS	S ON WELI	_S	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
				7. UNIT or CA AGREEMENT NAME:
Do not use this form for proposals to drill drill horizontal	new wells, significantly deepen existing wells below cur laterals. Use APPLICATION FOR PERMIT TO DR LL 1	form for such proposal	s.	N/A 8. WELL NAME and NUMBER:
1. TYPE OF WELL OIL WELL	. 🗌 GAS WELL 🗹 OTHER _		_	Archy Bench 11-22-12-2
2. NAME OF OPERATOR:				9. API NUMBER:
Enduring Resources, LLC	<u> </u>		PHONE NUMBER:	4304736793 10. FIELD AND POOL, OR WILDCAT:
3. ADDRESS OF OPERATOR: 475 17th Street, Suite 1500	Denver STATE CO ZIE	80202	(303) 350-5719	Undesignated
4. LOCATION OF WELL	31815 245			
FOOTAGES AT SURFACE: 2347'	FNL - 577' FWL			county: Uintah
QTR/QTR, SECTION, TOWNSHIP, RA				STATE: UTAH
11. CHECK APP	PROPRIATE BOXES TO INDICA	TE NATURE (OF NOTICE, REPO	RT, OR OTHER DATA
TYPE OF SUBMISSION			PE OF ACTION	
NOTICE OF INTENT	ACIDIZE	DEEPEN		REPERFORATE CURRENT FORMATION
(Submit in Duplicate)	ALTER CASING	FRACTURE		SIDETRACK TO REPAIR WELL
Approximate date work will start:	CASING REPAIR	MEW CONS		TEMPORARILY ABANDON
	CHANGE TO PREVIOUS PLANS	OPERATOR		TUBING REPAIR
	CHANGE TUBING	PLUG AND		VENT OR FLARE
SUBSEQUENT REPORT (Submit Original Form Only)	CHANGE WELL NAME	PLUG BACK		WATER DISPOSAL
Date of work completion:	CHANGE WELL STATUS		ON (START/RESUME)	WATER SHUT-OFF
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	CONVERT WELL TYPE		TE - DIFFERENT FORMATION	
Change from single zone		perunent devans in	nduling dates, deputs, volum	100, 000
Utah State Bond #RLB00 Operator No. N2750)08031			
NAME (PLEASE PRINT) Evette B	issett	ТІТІ	Regulatory Affa	irs Assistant
1/ water	Bissett	DAT	1/12/2007	
SIGNATURE SIGNATURE	~~~ <u>-</u>			

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JAN 1 6 2007

ENDURING RESOURCES, LLC

425 Seventeenth Street, Suite 1500 Denver, Colorado 80202

Telephone: 303-573-1222 Facsimile: 303-573-0461

April 27, 2007

The Houston Exploration Company 1100 Louisiana, Suite 2000 Houston, Texas 77002

CERTIFIED MAIL

ARTICILE NO: 7006 2760 0002 2878 4807

Attention:

Land Department

RE: Commingling Application **Archy Bench 11-22-12-2**

(2.347' FNL - 577' FWL) SWNW Section 2, T11S-R22E

Uintah County, Utah

Dear Leasehold Interest Owner:

Enduring Resources, LLC ("Enduring") has filed an application with the State of Utah Division of Oil, Gas, and Mining requesting approval of the Wasatch and Mesaverde formations (pools) in the above-referenced well to be commingled.

Ownership in both formations is the same. However, in the event allocation of production is necessary, that allocation will be based on proportionate net pay based on well logs. These formations (pools) shall be commingled in the well's well bore.

Attached is a map showing the location of wells on contiguous oil and gas leases and/or production units. Also attached is an affidavit confirming that this application has been provided to leasehold interest owners in contiguous oil and gas leases or production units overlying the commingled pools (commingled formations).

Should you have any questions concerning this matter, please do not hesitate to call (303-350-5114)

Very truly yours

Mh.

ENDURING RESOURCES, LLC

Alvin R. (Al) Arlian

Landman - Regulatory Specialist

ara/

Attachments as stated:

AFFIDAVIT OF MAILING

Statue of Colorado)
City and)ss
County of Denver)

Alvin R. Arlian (hereinafter sometimes referred to as "Affiant"), of lawful age, being first duly sworn upon oath, deposes and says:

- 1. Affiant is a Landman-Regulatory Specialist for Enduring Resources, LLC (hereinafter sometimes referred to as "Enduring") whose address is 475 17th Street, Denver, Colorado 80202,
- 2. Enduring is the operator of the following described oil and gas well:

Archy Bench 11-22-12-2 (2,347' FNL - 577' FWL) SWNW Section 2, T11S-R22E Uintah County, Utah

- 3. A cursory search of applicable records confirmed that the following parties are the only leasehold interest owners in the contiguous oil and gas wells, contiguous oil and gas leases, or contiguous oil and gas well production units overlying the "pool."
 - 1. The Houston Exploration Company
 - 2. Westport Oil & Gas Company LP
 - 3.
 - 4.
- 4. On Friday, April 27, 2007 Affiant mailed (or caused to be mailed) in U.S. Mail, with postage prepaid, a copy of the attached Application for Commingling two or more pools (formations) in one well bore of the well described in Paragraph No. 2 above which said Application for Commingling (Form 9) has/had concurrently been filed with the State of Utah Division of Oil, Gas, and Mining (and if applicable, copies sent to SITLA, and the Bureau of Land Management), and
- 5. Attached is a map showing the location of wells' located on contiguous oil and gas leases and/or production units.

Affiant saith no more.

Alvin R. Arlian, Affiant

Scribed and sworn to before many day of April, 2007 by Alvin R. Aflian.

My Commission Expires:

Notary Public.

ENDURING RESOURCES, LLC

425 Seventeenth Street, Suite 1500 Denver, Colorado 80202 Telephone: 303-573-1222

Facsimile: 303-573-0461

April 27, 2007

Westport Oil & Gas Company 1999 Broadway, Suite 3600 Denver, Colorado 80202

CERTIFIED MAIL

ARTICILE NO: 7006 2760 0002 2878 4814

Attention:

Land Department

RE: Commingling Application **Archy Bench 11-22-12-2**

(2.347' FNL - 577' FWL) SWNW Section 2, T11S-R22E

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Should you have any questions concerning this matter, please do not hesitate to call (303-350-5114)

Very truly yours

ENDURING RESOURCES, LLC

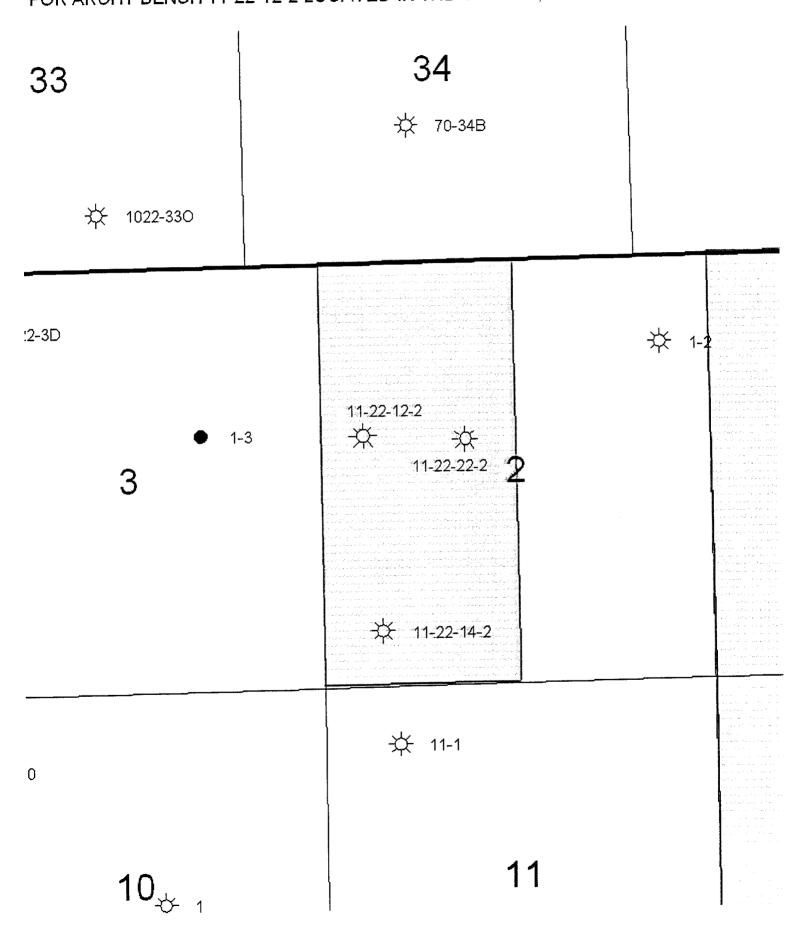
Alvin R. (Al) Arlian

Landman - Regulatory Specialist

ara/

Attachments as stated:

MAP ATTACHED TO ENDURING RESOURCES, LLC COMMINGLING APPLICATION FOR ARCHY BENCH 11-22-12-2 LOCATED IN THE SWNW 2, T11S-R22E



FORM 9

STATE OF UTAH

DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL, GAS AND MINING	5. LEASE DESIGNATION AND SERIAL NUMBER: ML-47075
SUNDRY NOTICES AND REPORTS ON V	VELLS 6. IF INDIAN, ALLOTTEE OR TRIBE NAME: N/A
Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom- drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such	7. UNIT or CA AGREEMENT NAME:
1. TYPE OF WELL OIL WELL GAS WELL OTHER	8. WELL NAME and NUMBER:
2. NAME OF OPERATOR:	9. API NUMBER: 4304736793
Enduring Resources, LLC 3. ADDRESS OF OPERATOR:	PHONE NUMBER: 10. FIELD AND POOL, OR WILDCAT: (303) 350-5114 Undesignated
475 17th Street, Suite 1500 CITY Denver STATE CO ZIP 80202	(555) 555
FOOTAGES AT SURFACE: 2347' FNL - 577' FWL	соинту: Uintah
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SWNW 2 11S 22E S	STATE: UTAH
11. CHECK APPROPRIATE BOXES TO INDICATE NAT	JRE OF NOTICE, REPORT, OR OTHER DATA
TYPE OF SUBMISSION	TYPE OF ACTION REPERFORATE CURRENT FORMATION
NOTICE OF INTENT	REPERFORATE CURRENT FORMATION CTURE TREAT SIDETRACK TO REPAIR WELL
(Sabilitin Papinate)	V CONSTRUCTION TEMPORARILY ABANDON
Approximate date work with state 1	ERATOR CHANGE TUBING REPAIR
5/17/2007	IG AND ABANDON VENT OR FLARE
	IG BACK WATER DISPOSAL
(Submit Original Form Only)	DDUCTION (START/RESUME) WATER SHUT-OFF
Date of work completion: COMMINGLE PRODUCING FORMATIONS RE	CLAMATION OF WELL SITE OTHER:
I—	COMPLETE - DIFFERENT FORMATION
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent de	etails including dates, depths, volumes, etc.
In order to prevent waste of gas, as defined by law; to protect the drilling of un-necessary wells; and to insure proper and efficient de the State of Utah, Enduring Resources, LLC respectfully request a Mesaverde formations "pools" in the same well bore. 1. Ownership in both formations is the same. However, in the even	evelopment and promote conservation of the gas resources of approval to perforate and commingle the Wasatch and
 will be based on proportionate net pay based on well logs. These formations shall be commingled in the well bore and proproduction tubing. Attached is a map showing the location of wells on contiguous 4. Also attached is an affidavit confirming that this application has contiguous oil and gas lease or production units overlying the " 	duced concurrently in a single string of 2-3/8" bil and gas leases and/or production units. been provided to leasehold interest owners in
	COPY SENT TO OPERATOR Date: (0-1-0) Initials: D.W.
NAME (PLEASE PRINT) Alvin R. (AI) Arlian	TITLE Landman - Regulatory Specialist
SIGNATURE SIGNATURE	DATE 4/27/2007
(This space for State use only) APPROVED BY THE STATE OF UTAH DIVISION OF	

(5/2000)

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* Cause 2(0-04 Allows

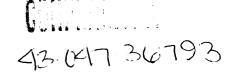
MAY 0 2 2007

DINOFOUL CASE TIMES

ENDURING RESOURCES, LLC

425 Seventeenth Street, Suite 1500 Denver, Colorado 80202

Telephone: Facsimile: 303-573-1222 303-573-0461



May 4, 2007

State of Utah Division of Oil, Gas and Mining P.O. Box 145801 Salt Lake City, Utah 84114-5801

RE: Well Logs

Archy Bench 11-22-12-2

SWNW Sec 2-T11S-R22E (BHL)

Uintah County, Utah

Ladies and Gentlemen:

Attached is one original copy of the logs run on the above-referenced well.

Please hold this information as "confidential" as long as allowed.

Should you have any questions concerning this matter, please do not hesitate to call 303-350-5114 (aarlian@enduringresources.com).

Very truly yours

ENDURING RESÖURCES, LLC

Alvin R. (Al) Arlian

Landman - Regulatory Specialist

ara/

Enclosures as stated:

RECEIVED MAY 0 7 2007

DIV. OF OIL, GAS & MINING

NOTICE

Utah Oil and Gas Conservation General Rule R649-3-21 states that,

- A well is considered completed when the well has been adequately worked to be capable of producing oil or gas or when well testing as required by the division is concluded.
- ➤ Within 30 days after the completion or plugging of a well, the following shall be filed:
 - Form 8, Well Completion or Recompletion Report and Log
 - · A copy of electric and radioactivity logs, if run
 - · A copy of drillstem test reports,
 - A copy of formation water analyses, porosity, permeability or fluid saturation determinations
 - · A copy of core analyses, and lithologic logs or sample descriptions if compiled
 - A copy of directional, deviation, and/or measurement-while-drilling survey for each horizontal well

Failure to submit reports in a timely manner will result in the issuance of a Notice of Violation by the Division of Oil, Gas and Mining, and may result in the Division pursuing enforcement action as outlined in Rule R649-10, Administrative Procedures, and Section 40-6-11 of the Utah Code.

As of the mailing of this notice, the division has not received the required reports for

Operator: Enduring Resources, LLC Today's Date: 09/18/2007

Well:	API Number:	Drilling Commenced:
Bonanza 9-24-24-27 drlg/wcr	4304735923	02/05/2005
Bonanza 9-25-13-20 drlg/wcr	4304735929	08/06/2005
Southman Cyn 10-24-13-30 drlg/wcr	4304736238	12/30/2006
Rock House 11-23-42-2 drlg/wcr	4304737865	01/25/2007
Rock House 11-23-41-2 drlg/wcr	4304738033	01/25/2007
Bonanza 9-24-11-17 drlg/wcr	4304736017	01/30/2007
Rainbow 11-24-21-20 drlg/wcr	4304737567	02/07/2007
Archy Bench 11-22-12-2 drlg/wcr	4304736793	03/14/2007

To avoid compliance action, required reports should be mailed within 7 business days to:

Utah Division of Oil, Gas and Mining

1594 West North Temple, Suite 1210

P.O. Box 145801

Salt Lake City, Utah 84114-5801

If you have questions or concerns regarding this matter, please call (801) 538-5284.

cc: Well File Compliance File

Well	API number	Drilling Commenced
Archy Bench 11-22-22-2 drlg/wcr	4304736786	03/14/2007
Rock House 11-23-21-2 drlg/wcr	4304738032	05/02/2007
Rock House 11-23-22-2 drlg/wcr	4304737867	05/02/2007
Hanging Rock 11-23-43-36 drlg/wc	r 4304738282	05/03/2007

I	DEPARTMENT OF NATURAL RESOUF DIVISION OF OIL, GAS AND MII		5. LEASE DESIGNATION AND SERIAL NUMBER ML-47075
SUNDRY	NOTICES AND REPORTS	S ON WELLS	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
o not use this form for proposals to drill n	new wells, significantly deepen existing wells below cun enterals. Use APPLICATION FOR PERMIT TO DRILL fo	rent bottom-hole depth, reenter plugged wells, or to orm for such proposals.	7. UNIT or CA AGREEMENT NAME: N/A
TYPE OF WELL OIL WELL			8. WELL NAME and NUMBER: Archy Bench 11-22-12-2
NAME OF OPERATOR: nduring Resources, LLC			9. API NUMBER: 4304736793
ADDRESS OF OPERATOR:	y Denver STATE CO ZIP	PHONE NUMBER: (303) 350-5114	10. FIELD AND POOL, OR WILDCAT: Undesignated
FOOTAGES AT SURFACE: 2347'	FNL - 577' FWL		соинту: Uintah
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This well has been drilled to total depth and production casing cemented and set.

A Completion Report is being filed showing cement and production casing data.

Tank battery, pipeline hook-up, and production equipment are currently being constructed and/or set in anticipation of completion of the well when a gas market becomes available.

The final well completion will be completed as soon as a gas market becomes available.

NAME (PLEASE PRINT) Alvin R. (AI) Arlian	TITLE	Landman - Regulatory Specialist
SIGNATURE	DATE	9/27/2007
SIGNATURE	_	

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STATE OF UTAH

DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL GAS AND MINING

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I	DIVISION OF OIL, GAS AND MINING		5. LEASE DESIGNATION AND SERIAL NUMBER: ML-47075
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SUNDKI	NOTICES AND REPORTS ON WEL		N/A 7. UNIT or CA AGREEMENT NAME:
Do not use this form for proposals to drill no	ew wells, significantly deepen existing wells below current bottom-hole dep terals. Use APPLICATION FOR PERMIT TO DRILL form for such propose	th, reenter plugged wells, or to is.	N/A
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2. NAME OF OPERATOR:			9. API NUMBER:
Enduring Resources, LLC			4304736793
3. ADDRESS OF OPERATOR: 475 17th Street, Suite 1500	Denver STATE CO ZIP 80202	PHONE NUMBER: (303) 350-5114	10. FIELD AND POOL, OR WILDCAT: Undesignated
4. LOCATION OF WELL			1 Podek
FOOTAGES AT SURFACE: 2347'	FNL - 577' FWL		соunty: Uintah
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(Submit Original Form Only)		ON (START/RESUME)	WATER SHUT-OFF
Date of work completion:		TION OF WELL SITE	✓ отнек: First gas sales.
11/30/2007	H	ETE - DIFFERENT FORMATION	
12. DESCRIBE PROPOSED OR CO	OMPLETED OPERATIONS. Clearly show all pertinent details in	icluding dates, depths, volum	es, etc.
Notice of first gas sales o	n November 30, 2007.		
NAME (PLEASE PRINT) Alvin R. (Al) Arlian	_{LE} Landman - Regi	ulatory Specialist
NAME (PLEASE PRINT)			
SIGNATURE	D/	12/6/2007	

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DEC 1 0 2007



Enduring Resources, LLC

475 17th St. - Suite 1500 Denver, CO 80202 (303) 573-1222



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43-047-36793

Drilling Chronological Regulatory

Company Comp		W	ell Name:AR	CHY BENCH	11-22-12-	02			
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Well Name: ARCHY BENCH 11-22-12-02	2.5	10.00	
Field Name: Utah S/T/R // County,Stat		NTAH, UT	
Operator: Enduring Resources LLC Location Desc: SWNW-2-11S-22E District	iti ı	Vorthern	
Daily Summary (1)			
Activity Date: 2/2/2007 Days From Spud: 0 Current Depth: 0 Ft 24 Hr. Foota	ge Made :		0 Ft
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Formation: Weather:			
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Start Hrs Code Remarks		0	NIH
6:00 2.00 24 SDFN	0	0	NIH
8:00 9.00 21 BUILDING LOCATION 17:00 13.00 24 SDFN	0	0	NIH
Total: 24.00			
Daily Summary			
Control of the Contro	ne Made :		0 Ft
Activity Date: 2/5/2007 Days From Spud: -51 Current Depth: 0 Ft 24 Hr. Foota	go Mado .		
Formation: Weather:			
Operations			
Start Hrs Code Remarks	Start Depth	End Depth	Run
6:00 2.00 24 SDFN	0	0	NIH
8:00 9.00 21 BUILDING LOCATION	0	0	NIH
17:00 13.00 24 SDFW	0	0	NIH
Total: 24.00			
Daily Summary			
Activity Date: 2/6/2007 Days From Spud: 0 Current Depth: 0 Ft 24 Hr. Foota	ge Made :		0 Ft
Rig Company: Rig Name:			
Formation: Weather:			
Operations			
Start Hrs Code Remarks	Start Depth		Run
6:00 2.00 24 SDFN	0	0	NIH
8:00 9.00 21 BUILDING LOCATION	0	0	NIH
17:00 13.00 24 SDFN	1 0	<u> </u>	INIII
Total: 24.00			
Daily Summary			0 54
Activity Date: 2/7/2007 Days From Spud: 0 Current Depth: 0 Ft 24 Hr. Foota	ge Made :		0 Ft
Rig Company : Rig Name: Weather:			
Formation: Weather: Operations			
	Start Depth	End Depth	Run
	0	0	NIH
6:00 2.00 24 SDFN 8:00 9.00 21 BUILDING LOCATION	0	0	NIH
17:00 13.00 24 SDFN	0	0	NIH
Total: 24.00			
Daily Summary		Mark Park Signal	
Activity Date: 2/8/2007 Days From Spud: 0 Current Depth: 0 Ft 24 Hr. Foota	ge Made :		0 Ft
Rig Company: Rig Name:	J		
Formation: Weather:			
Operations			
Start Hrs Code Remarks	Start Depth	End Depth	Run
6:00 2.00 24 SDFN	0	0	NIH
8:00 9.00 21 BUILDING LOCATION	0	0	NIH
17:00 13.00 24 SDFN	0	0	NIH
Total: 24.00			

		RCHY BENCH	111-22-12-		-		
Field Name:	Utah S/T/R		110.005	County,State		NTAH, UT	
Operator: Er	nduring Resources LLC Location Desc		11S-22E	Distric	t: I	Northern	
		Daily Summary					
Activity Date :	2/9/2007 Days From Spud: 0		: 0 Ft	24 Hr. Footag	ge Made :		0 F1
Rig Company:		Rig Name:	· .				
Formation :		Weather:					
		Operations			Start Depth	End Donth	Run
Start Hrs Coo		Remarks				0	NIH
6:00 2.00 24					0	0	NIH
8:00 9.00 21	BUILDING LOCATION				0	0	NIH
17:00 13.00 24 Total: 24.00	SDFN						
Total. [24.00		5 31 °C					1000
		Daily Summary	0.54	24 Uz Footos	no Modo :		0 F
Activity Date :	2/12/2007 Days From Spud : 0		: 0 Ft	24 Hr. Foota	ge iviaue .	<u> </u>	υr
Rig Company :		Rig Name: Weather:					
Formation :							
		Operations Remarks			Start Denth	End Depth	Run
Start Hrs Coo		Remarks			0	0	NIH
6:00 2.00 24					0	0	NIH
8:00 9.00 21					0	0	NIH
17:00 13.00 24	SDFW						
Total: 24.00							
		Daily Summary				ı	
Activity Date :	2/13/2007 Days From Spud: 0		: 0 Ft	24 Hr. Foota	ge Made :	<u> </u>	0 F
Rig Company :		Rig Name:					
Formation:		Weather:					
		Operations			Start Donth	End Depth	Run
Start Hrs Cod		Remarks					NIH
6:00 2.00 24					0	0	NIH
8:00 9.00 21					0	0	NIH
17:00 13.00 24	SDFN				L		
Total: 24.00					213 COSPC (* 17424)		(Co. 2)
		Daily Summary				T	
Activity Date :	2/14/2007 Days From Spud: 0		0 Ft	24 Hr. Foota	ge Made :		0 F
Rig Company:		Rig Name:	.ii				
Formation :		Weather:				· · · · · · · · · · · · · · · · · · ·	1
		Operations			Total Danill	End Depth	Bun
Start Hrs Coo		Remarks					Run
6:00 2.00 24					0	0	NIH
8:00 9.00 21					0	0	NIH
17:00 13.00 24	SDFN					0	INIT
Total: 24.00						and the second distance	od sener 11
		Daily Summary					
Activity Date :	2/15/2007 Days From Spud : 0	Current Depth	: 0 Ft	24 Hr. Foota	ge Made :		0 F
Rig Company:		Rig Name:					
Formation :		Weather:					
		Operations		edisi, sien			######################################
Start Hrs Coo	le)	Remarks				End Depth	
6:00 2.00 24					0	0	NIH
8:00 9.00 21	BUILDING LOCATION						NIH
17:00 13.00 24	SDFN				0	0	NIH
8:00 9.00 21	BUILDING LOCATION				0 0	0 0	

Well Name: ARCHY BENCH 11-22-12-02			
Field Name: Utah S/T/R: // County,S		NTAH, UT	
	strict:	Northern	
Daily Summary	16.0		
Activity Date: 2/16/2007 Days From Spud: 0 Current Depth: 0 Ft 24 Hr. Fo	otage Made :		0 Ft
Rig Company: Rig Name:			
Formation: Weather: Weather:			
Operations			
Start Hrs Code Remarks	Start Depth	End Depth	Run
6:00 2.00 24 SDFN	0	0	NIH
8:00 9.00 21 BUILDING LOCATION	0	0	NIH
17:00 13.00 24 SDFN	0	0	NIH
Total: 24.00			
Daily Summary	4		
Activity Date: 2/20/2007 Days From Spud: 0 Current Depth: 0 Ft 24 Hr. Fo	otage Made :		0 Ft
Rig Company: Rig Name:			
Formation: Weather:			
Operations			
Start Hrs Code Remarks	Start Depth		Run
6:00 2.00 24 SDFN	0	0	NIH
8:00 9.00 21 BUILDING LOCATION	0	0	NIH
17:00 13.00 24 SDFW	0	0	NIH
Total: 24.00			
Daily Summary		10.44	
Activity Date: 2/21/2007 Days From Spud: 0 Current Depth: 0 Ft 24 Hr. Fo	otage Made :		0 Ft
Rig Company: Rig Name:			
Formation: Weather:			
Operations			
Start Hrs Code Remarks	Start Depth	End Depth	Run
6:00 2.00 24 SDFN	0	0	NIH
8:00 9.00 21 BUILDING LOCATION	0	0	NIH
17:00 13.00 24 SDFN	0	0	NIH
Total: 24.00			
Daily Summary			
Activity Date: 2/22/2007 Days From Spud: 0 Current Depth: 0 Ft 24 Hr. Fo	otage Made :		0 Ft
Rig Company: Rig Name:			
Formation: Weather:			
Operations			
Start Hrs Code Remarks		End Depth	Run
6:00 2.00 24 SDFN	0	0	NIH
8:00 9.00 21 BUILDING LOCATION	0	0	NIH
17:00 13.00 24 SDFN	0	0	NIH
Total: 24.00			
Daily Summary			
Activity Date: 2/23/2007 Days From Spud: 0 Current Depth: 0 Ft 24 Hr. Fo	otage Made :		0 Ft
Rig Company: Rig Name:			
Formation: Weather:			
Operations			
Start Hrs Code Remarks	Start Depth	End Depth	Run
6:00 2.00 24 SDFN	0	0	NIH
8:00 9.00 21 BUILDING LOCATION	0	0	NIH
17:00 13.00 24 SDFN	0	0	NIH
Total: 24.00			

	Name:AR	CHY BENCH	11-22-12-				
Field Name: Utah	S/T/R			County,State		NTAH, UT	
Operator: Enduring Resources LLC Loca	ation Desc:	SWNW-2-1	1S-22E	District	:	Northern	
	D	aily Summary					
Activity Date : 2/26/2007 Days From Sp		Current Depth :	0 Ft	24 Hr. Footag	e Made :		0 F
Rig Company :	our	Rig Name:	0.4	2111111100149	io maao i	l	
Formation:		Weather:					
		Operations	<u> </u>				
Start Hrs Code		Remarks			Start Depth	End Depth	Run
6:00 2.00 24 SDFN					0	0	NIH
8:00 9.00 21 BUILDING LOCATION	-				0	0	NIH
17:00 13.00 24 SDFW			····		0	0	NIH
Total: 24.00						<u> </u>	·
	D	aily Summary					
		200 min - 100 miles - 100 miles - 100 miles - 100 miles		0441 5 4	3.4 - 1	I .	^ -
Activity Date : 2/27/2007 Days From Sp	oud: 0	Current Depth:	0 Ft	24 Hr. Footag	e Made :		0 F
Rig Company:		Rig Name:					
Formation:		Weather:					
		Operations					
Start Hrs Code		Remarks			Start Depth		Run
6:00 2.00 24 SDFN					0	0	NIH
8:00 9.00 21 BUILDING LOCATION					0	0	NIH
17:00 13.00 24 SDFN					0	0	NIH
Total: 24.00							
Control of the Contro	D	aily Summary					
Activity Date : 2/28/2007 Days From Sp	oud: 0	Current Depth :	0 Ft	24 Hr. Footag	e Made :		0 F
Rig Company:		Rig Name:					
Formation :		Weather:					
		Operations					
Start Hrs Code	r Elektraitri ali Si	Remarks			Start Depth	End Depth	Run
6:00 2.00 24 SDFN					0	0	NIH
8:00 9.00 21 BUILDING LOCATION					0	0	NIH
17:00 13.00 24 SDFN					0	0	NIH
Total: 24.00						L	l
							4100000.12
	61 1 2 1 M 2 2 M 4 M 4 M 7 M A 7 M 4 M	aily Summary					20.00
Activity Date : 3/1/2007 Days From Sp	oud: 0	Current Depth :	0 Ft	24 Hr. Footag	e Made :		0 F
Rig Company:		Rig Name:					
Formation		Weather:					
		Operations					
Start Hrs Code		Remarks			Start Depth	10 1 10 10 10	Run
6:00 2.00 24 SDFN					0	0	NIH
8:00 9.00 21 BUILDING LOCATION					0	0	NIH
17:00 13.00 24 SDFN					0	0	NIH
Total: 24.00							
	D:	aily Summary					
Activity Date : 3/2/2007 Days From Sp	ng transfer at the control of the con-	Current Depth :	0 Ft	24 Hr. Footage	e Made		0 F
Rig Company:	<u></u>	Rig Name:	<u> </u>	2 1 111. 1 ootag	o maao .		
Formation:		Weather:					
		Operations		·			
Start Hrs Code		Remarks		10 July 10 Jul	Start Depth	End Denth	Run
	and the state of the	Calaino.			0	0	NIH
			·		0		
8:00 9.00 21 BUILDING LOCATION			-	·		0	NIH
17:00 13:00 24 SDFN				I	0	0	NIH
Total: 24.00							

	W	/ell Name:AR	CHY BENCH 1	1-22-12-	02			
Field Name:	Utah	S/T/R	- 11		County,State	: UI	NTAH, UT	
	nduring Resources LLC	Location Desc:	SWNW-2-11S	-22E	District		Northern	
			aily Summary			1020		
Activity Date :	3/5/2007 Days Fr	om Spud : -23	Current Depth :	0 Ft	24 Hr. Footag	e Made :		0 F
Rig Company :			Rig Name:					
Formation :			Weather:					
			Operations					
Start Hrs Cod	le		Remarks			Start Depth	End Depth	Run
6:00 2.00 24	and the second second second second		<u> </u>			0	0	NIH
8:00 9.00 21						0	0	NIH
17:00 13.00 24						0	0	NIH
0.00 02						0	0	NIH
Total: 24.00								
		D.	aily Summary					
Activity Date :	3/6/2007 Days Fr	om Spud : 0	Current Depth :	0 Ft	24 Hr. Footag	e Made :		0 F
Rig Company :	0,0,200		Rig Name:					
Formation :			Weather:					
			Operations			:		
Start Hrs Coo	le l		Remarks			Start Depth	End Depth	Run
6:00 2.00 24			· · · · · · · · · · · · · · · · · · ·			0	0	NIH
8:00 9.00 21	BUILDING LOCATION					0	0	NIH
17:00 13.00 24						0	0	NIH
Total: 24.00						-	<u> </u>	
		D	aily Summary					
Activity Date :	3/7/2007 Days Fr	om Spud : 0	Current Depth :	0 Ft	24 Hr. Footag	e Made :		0 F
Rig Company:	SITIZOUT Days 1.1	онгории . т	Rig Name:	1			<u> </u>	
Formation:			Weather:					
Tomation.			Operations					
Start Hrs Coo			Remarks			Start Denth	End Depth	Run
the second second second	The second secon		temarks			0	0	NIH
6:00 2.00 24						0	0	NIH
8:00 9.00 21 17:00 13.00 24	Building Location SDFN					0	0	NIH
17:00 13.00 24 Total: 24.00	PDFM	····						14111
10tal: 24.00	modulus annum m. an 15°° a' ' - > > > b' beauti Walkeria aa			Base 2010 (100) (1000 (100) (1000 (1000 (1000 (1000 (1000 (1000 (1000 (1000 (1000 (100) (100) (1000 (100) (1000 (100) (1000 (100) (1000 (100) (1000 (100) (1000 (100) (1000 (100) (1000 (100) (1000 (100) (1000 (100) (1000 (100) (100) (1000 (100) (100) (1000 (100) (100) (1000 (100) (100) (100) (100) (100) (100) (1000 (100) (1				X830003303
		AND SALE DOLLOWS TO SALE OF THE SALE	aily Summary				T	
Activity Date :	3/8/2007 Days Fr	om Spud : 0	Current Depth :	0 Ft	24 Hr. Footag	e Made :		0 F
Rig Company :			Rig Name:					
Formation:			Weather:		····			
			Operations					
Start Hrs Coo	e		Remarks				End Depth	Run
6:00 2.00 24	SDFN					0	0	NIH
8:00 9.00 21	BUILDING LOCATION					0	0	NIH
	CDEN					0	0	NIH
17:00 13.00 24	SDFN							

	(5,04490)E)					CHY BENCH				NITALL 15	
Field Name:	E	Utat			T/R	// SWNW-2-11	IC 225	County,State		NTAH, UT	
Operator:	⊨na	uring Reso	ources LLC	Location D			15-22E	Distric	[[]	Northern	
					D	aily Summary					
Activity Date :		3/9/2007	Days Fro	om Spud :	0	Current Depth:	0 Ft	24 Hr. Footag	ge Made :		0
Rig Company:	1_					Rig Name:					
Formation :						Weather:					··· ··· ··· ··· ··· ·
						Operations					T =
	ode					Remarks			Start Depth		1
	24	SDFN	I COLTION						0	0	NII
	21 24	SDFN	LOCATION						0	0	NIF
Total: 24.00	24	SDFN							<u> </u>	0	INII
10tal. 24.00	Nass Colo										64
					ilianoi de la como	aily Summary					
Activity Date :		3/12/2007	Days Fro	m Spud :	_0_	Current Depth:	0 Ft	24 Hr. Foota	ge Made :	ļ	0
Rig Company :						Rig Name:					
Formation :	1_					Weather:					
						Operations			la a r	l=	T =
	ode					Remarks			Start Depth		Ru
	24	SDFN							0	0	NII
	21 24	Building Lo SDFW	cation						0	0	NII
Total: 24.00	24	PDFM							<u> </u>	L 0	INII
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					D	aily Summary		t de la companya de l			
Activity Date :	3	3/13/2007	Days Fro	m Spud :	0	Current Depth:	0 Ft	24 Hr. Footag	ge Made :		0
Rig Company :	_					Rig Name:					
Formation :	è			 		Weather:					
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	ode					Remarks			Start Depth		Rui
	24	SDFN	DI III DINO I	OCATION					0	0	NIF
	20 24	SDFN	BUILDING L	OCATION		· · · · · · · ·			0	0	NIF
Total: 24.00	24	SDEN							U	U	INII
10101. 2-1.00	u Trest said				Table days				NOLIS ENGINEERISCHE)	a messaren era era	26 6-81 181
					יט	aily Summary					
Activity Date :	3	/15/2007	Days Fro	m Spud :	0	Current Depth :	40 Ft	24 Hr. Footag	ge Made :		40
Rig Company :						Rig Name:					
Formation :	1					Weather:					
5 I () La	1. 1					Operations					
	ode					Remarks			Start Depth		Rui
		SDFN	ADTIN AND	DDUL 40 FT	05.00	" CONDUCTOR HO	I F DUN 40 FT	OF 44"	0	0	Νİ
8:00 3.00	02					" CONDUCTOR HO YARDS OF READ		OF 14	0	40	NIF
11:00 19.00	24	SDFN	·						40	40	NIF
Total: 24.00											
	288				Da	aily Summary			arent allerit da		
Activity Date :	2	/19/2007	Dave Fro	m Spud :	0	Current Depth :	1650 Ft	24 Hr. Footag	ie Made :	11	610
Rig Company :	+³	, 10,2001	1.20y3110	opud . j	<u> </u>	Rig Name:	7000 T U		, - 1,1446		510
Formation:	\vdash				-	Weather:			·		
						Operations					. : .
Start Hrs Co	ode				F	Remarks			Start Depth	End Depth	Rur
	- 1										
6:00 24.00 ()2	MI BILL JRS	S AND DRIL	L 12 1/4" HOL	E TO	1650 FT. NO WATE	R SHOWS		40	1650	NIF

	W	ell Name:AR	CHY BENCH	11-22-12-	02		17.5 miles (2.7 miles	39.7
Field Name:	Utah	S/T/R:	//		County,State	e: UI	NTAH, UT	
Operator: E	nduring Resources LLC	Location Desc:	SWNW-2-11	S-22E	Distric	it: I	Northern	
	i kanana da arawa kanana k Propinsi kanana kan	D	aily Summary					
Activity Date :	3/20/2007 Days Fro	om Spud : 0	Current Depth :	2040 Ft	24 Hr. Footag	ge Made :		390 Ft
Rig Company:	.,, .		Rig Name:					
Formation:			Weather:					
			Operations					
Start Hrs Co	de		Remarks			Start Depth	End Depth	Run
6:00 11.00 0	2 drilling 12 1/4" hole to 2	040 ft.				1650	2040	NIH
17:00 13.00 1						2040	2040	NIH
	FLOAT COLLAR, 8 CEI SURFACE. BIG 4 CEM 100SX.							
Total: 24.00								
		D	aily Summary					
Activity Date :	3/26/2007 Days Fro	m Spud: 0	Current Depth:	2040 Ft	24 Hr. Footag	ge Made :		0 FI
Rig Company:	Ensigr	1	Rig Name:		Ensi	gn 79		
Formation :			Weather:					
			Operations					
Start Hrs Co	de		Remarks			Start Depth	End Depth	Run
6:00 10.00 0°	Prep for move and wait	on trucks				2040	2040	NIH
16:00 4.00 0°	Move Rig 4-Loads of Ri	g Components to St	taging Area and MI/R	U Camps on A	rchie Bench	2040	2040	NIH
20:00 10.00 24	SDFN					2040	2040	NIH
Total: 24.00								
	7	(D	aily Summary					
Activity Date :	3/27/2007 Days Fro	m Spud: 0	Current Depth :	2056 Ft	24 Hr. Footag	ge Made :		0 Ft
Rig Company:	Ensigr)	Rig Name:		Ensiç	gn 79		
Formation :			Weather:					
			Operations		diadel es calibre			
Start Hrs Cod	de		Remarks			Start Depth	End Depth	Run
6:00 2.00 24	SDFN					2056	2056	NIH
8:00 22.00 01	MI/RU Raise Derrick @	1900 Hrs, Rig up pr	repare to test BOP's (@ 0800 Hrs		2056	2056	NIH
Total: 24.00								

Field N	la ma -	 	-	طمقا	1996	77	en l			UNI E	ENCH	1 1	1-22-	12.			انديد	47.565	LUE	TAL!	UT	
Field N				Jtah			10000		S/T/R	014	// /ADA/ O.4	140	005		Col		State:			TAH,		
Ope	rator	: Enc	luring R	esour	ces	LLC	Loc	ation	Desc:	SV	/NW-2-1	13	-22E			וט	strict:		NO	orther	n	
A Property of the Control of the Con									D:	aily Sui	nmary											
Activity D	Date	:	3/28/20	07	Day	s Fro	m S	pud :	0	Currer	t Depth	:	2196	Ft	24 F	lr. Fo	otage	Made	э; Г		1	140 F
Rig Comp	oany	: 1		E	NSI	GN l	JSA			Rig	Name:					El	VSIGN	79				
Formati	on :									We	ather:	: 4										
		HOT :								Operat	ions	N.						arti i				
Start H	rs	Code								Remarks						de la	St	art De	epth E	nd De	pth	Run
6:00 2	2.50	14	Nipple	ир ВОІ	P's &	Rela	ted e	quipm	ent									2056	3	2056	5	NIH
8:30	3.50	15	Test B0	OP's to	300	0/250	psi. A	\nnula	ır to 1500	psi.,Line	s to pump	o to	2000 ps	i./Su	rface c	sg to		2056	3	2056	3	NIH
45.00	2 001	00									ss, all we	re n	otified)					0050		0050		.
	3.00	06				_			ick up Ma	chine								2056		2056		NIH
	3.00	06	P/U Bh				ilipipe	to 18	75 Tag									2056		2056		NIH
	1.50	06	R/D Lay	,			0.1								<u> </u>		_	2056		2056		NIH
22:30 2	2.50	06							otating ne quipment		ng sealing	j ele	ement, (N	vote:	:Rig up	rıg	<u> </u>	2056		2056	5	NIH
1:00 2	2.00	21									Rathole a	and	Drill to 2	067	', 11' c	of Nev	, -	2056		2067	· T	1
			hole.																			
).25	05	Circ for															2067		2067		1
).25	21					170	psi. w	ith 8.4 pp	g Wellbo	re Fluid @	0 20)22' EMV	V =1	0.0 pp	g.)	_	2067		2067		1
	.25	02	Drill F/2															2067		2156		1
).75	10					deg.	Azi 1	68.5 (Cor	rected)							_	2156		2156		1
).50	02	Drill F/2	156' to	219	6'												2156	5	2196		1
Total: 24.0	00																					
D 0 5		T 3877	lance.	~ 11 T	<i></i>	- I) (D)			lud Prop	-,		1						1 2	~		
	me	Wt		Out V		PV	ΥP		Gels	FL	HTEL	S	FC		TFC O	Sol		Vater		Oil		and
2056	.2 (-1	0.0			0	0	0)/0/0	0.0	0.0		0		.00	0.0		0.0%		0%		.0%
	pH	Pm		Mf		CI 0	3 1 1	Ca	ES	Por			Total S	aı.	CaC	12	EDT/	1 0	/W R	atio 1		
	0.00	L		0.00	<u> </u>		<u> </u>	0	0	0.0		U	0		0		0.00					0
Water Los 0		CM	ECD 0.0	FLT			JFT			Remar						· ·						-: ::
		J.U	0.0	<u> </u>		<u> </u>				ס ווויסח	t of Res	erv	e									

				W	/ell	Nam	ne:AF	RCI	IY BI	ENCH	11	1-22-	12-	02						
Field Nam	e:	U	tah				S/T/R:			//				Cou	nty,Sta	te:	U	NTAH.	, UT	
Operato	r: End	during Re	esource	es LLC	Loc	ation	Desc:		SWI	NW-2-1	1S-	-22E			Distri	ct:		Northe	rn	
								Dail	y Sum	mary										
Activity Date	e:	3/29/200	7 D	ays Fr	om S	pud :	2	T	Current	Depth	T	390	5 Ft	24 Hr	. Foota	ige M	ade :		1	709 Ft
Rig Compan				ISIGN		•		1	Rig N	ame:					ENS	IGN 7	9			
Formation				Wasat	ch				Wea	ther:										
								0	peratio	ons			****			eraile.			4.15	
Start Hrs	Code							Rer	narks							Star	t Depth	End D	epth	Run
6:00 3.00	02	DRILL F		T/ 2348													196	234		1
9:00 1.00		SERVIC															348	234		1
10:00 4.00		DRILL F		T/ 2628	3												348	262		1
14:00 0.50		MISS-R															628	262	-	1
14:30 0.50		DRILL F															628	265		1
15:00 0.50		RUN SU			9' = 1.	2 DEC	3 AZM	= 15	7.5 COF	RECTE	D						659	265		1
15:30 2.50		DRILL F			-												659 847	284 312		1
18:00 2.50		DRILL F				DEC 1	171110	700	ODDE.	TED							125	312		1
20:30 0.50 21:00 5.00		RUN SU				υ <u>-</u> υ,/	مدا۱۷۱ TC	7.9	JURKE	O I ELV							125	362		1
2:00 0.50		RUN SU				EG W	/ A7M7	153	1 COF	RECTE	D =	164.3					624	362		1
2:30 3.50		drill F/ 3										104.0					624	390		1
Total: 24.00	02	Julii 170		7000 711	10 01			.,,,,	ZI (IZZII V	O / (1 1 2 /						<u> </u>				
			. 1. 1. 1.				Anthibet	Mu	d Prope	rties				Complex			·		1.114	
Depth Time	Wt	In Wt C	Out Vi	s PV	YP	1	Gels		FL	HTFL		FC	НТ	FC	Solid	Wa	iter	Oil	S	Sand
4200 9:00	8.8				13	1	3/5/8		11.2	0.0		3	0.	00	5.0%	95.	0%	0.0%	C).1%
MBT pH	Pm	Pf	Mf	CI		Ca	∄ ∃E	S	Pom	Lin	ne i	Total	Sal.	CaCl	2 E	DTA	O/W	Ratio	Muc	Loss
9.3 0.30	0 0.20	2.20	1.40	2500		160	()	0.00	0.0	0	0		0	C	.00				0
Water Loss	LCM		FL Te		UFT				Remark							Hiller .				
0	0.0	0.0	100					<u> </u> t	ouilding				,							
Depth Time		In Wt C			YP		Gels		FL	HTFL		FC	_	FC	Solid		iter	Oil		Sand
3125	0.0				0		0/0/0		0.0	0.0	Т,	0		00	0.0%	0.0		0.0%		0.0%
MBT pH			Mf	CI		Ca	E		Pom			Total :	Sal.	CaCl		DTA	O/W	Ratio		-
0.0 0.00		0.00	0.00	0		0			0.00		ן טו	0	L	0	0	.00	<u> </u>			0
Water Loss 0	LCM 0.0		FL Te	mp	UFT		. 11 11 1		Remark	s H OVE	ВΛ	ND CT	ADT	MIVIN	IC MUI	<u> </u>	*******		:	- "
U	0.0	0.0] 0									וטטוו	ANI	IMIVIIA	IG MOI	J				
					d e Vigor			Dail	y Sum	mary									e de la composición dela composición de la composición de la composición de la composición dela composición dela composición dela composición de la composición de la composición dela composición de la composición dela c	
Activity Date		3/30/200	7 D	ays Fro	om S	pud:	3	C	Current	Depth:		5178	3 Ft	24 Hr	. Foota	ige M	ade:		1:	273 Ft
Rig Company	y :		EN	ISIGN	USA				Rig N	ame:	6				ENS	GN 7	9			
Formation				Wasate	ch				Wea	ther:										
								0	peratio	ns									a1 •	
Start Hrs	Code				in a se			Rer	narks							Star	Depth	End D	epth	Run
6:00 6.00	02	DRILL F														_	905	443		1
12:00 1.50	07	CONDIT			CULA	TE MI	JD BRI	NG I	MUD WI	EIGHT L	JP T	O 9,2 F	PG				433	443		1
13:30 0.50	07	SERVIV															433	443		1
14:00 3.50	02	DRILL F															433	468		1
17:30 0.50	10	RUN SU				EG A	ZMT 15	8.8	CORRE	CTED							682	468		1
18:00 12.00	02	DRILL F	ROM 4	583 T/5	178'											1 4	682	517	ď	1
Total: 24.00											ř :		:							7777
Double I	1011	Im 11811 C	<u> </u>	J DV	LVD	Γ .	201-	Mu	d Prope			EC	LIT	FC	Solid	Wa	itor I	Oil		Sand
Depth Time	Wt		Out Vis		YP 13		Gels 3/5/8		FL 11.2	HTFL 0.0		FC 3		00	5.0%	95.		0.0%).1%
3905 9:00 MBT pH	8.8 Pm		0 38 Mf	10 CI	1 13	Ca	5/5/8 E		li.∠ Pom		ا ۾	Total S		CaCl		T 95. DTA		Ratio		
9.3 0.30			1.40	2500	-	160			0.00		_	0	Jai.	0		.00	10,00	Tauo		0
	LCM		FL Ter		<u> </u>	100	1 - 5		Remark		<u> </u>	<u> </u>			1 0		<u> </u>			
0	0.0	0.0	100		<u> </u>	-	- ::: : : :		uilding									•		
L	0.0	0.0	100						Jananig											

					N	/ell	Nar		CHY E	BENCH	11	<u>-22-1</u>	2-02		17			ŽĄ,	
	d Nam		Uta			1.11		S/T/R:					С	ounty,	State:	Į	JINTA	ı, UT	-
0	perate	or: Er	nduring Res	ource	s LLC) Lo	cation	Desc:	SV	VNW-2-1	1S-2	2E.		D	strict:		North	ern	
								D	aily Su	mmary			e Aguara						
Activit			3/31/2007				Spud	4	Currer	nt Depth		5275	Ft 24	Hr. Fo	otage	Made:	5		97 F
Rig Co				EN	SIGN	USA	١			Name:	Î			E	NSIG	N 79			
Form	nation								We	ather:							_		
							i jila sa		Operat	ions							dere d		
Start	Hrs	Cod	e						Remarks						S	tart Dept	h End I	Depth	Rur
6:00	1.00	02	DRILL F/	5178 T	/5210											5178	52	10	1
7:00	3.00	21	45 MIN FL	.ow c	HECK	, CIF	RCULA	TE BOTT	OMS UP	, PUMP S	WEE	P1			\neg	5210	52	10	1
10:00	2.50	06	PUMP SV	/EEP &	& SLU	G T.C	D.O.Н.	TO NAK	E BIT GH	ANGE						5210	52	10	1
12:00	0.50	06	CHECKW	ELLIS	FLOV	VING	1 1/2"	STREAM	1							5210	52	10	1
12:30	3.00	06	T.I.H. W/	10 ST	DS TO	4,15	3, CIF	CULATE	BOTTON	/IS UP 20-	25' FL	ARE F	AISE M	W. TO		5210	52	10	NIF
45.00	0.50		8.9 PPG	DOTT:	~	. 615													·
15:30	2.50		TRIP TO				CULA	I E ROLL	OUMS 1	5-20' FLA	KE F	KAISE	M.W. TC) 10 PF	'G	5210	52		NIF
18:00 19:30	1.50		DRILL F/				111 4	-								5250	52		NIF
21:00	1.50 3.00		CONDITIO													5275	52		NIF
0:00	3.00		TRIP OUT	FUR	BH/C	IAN(oe UU	IRII								5275	52		NIH
3:00	0.50	21		050.	DIT 4.	1D T	3153 141					_				5275	52		NII
3:30	2.00		P/U NEW						LADE							5275	52		NIH
5:30	0.50	05	BREAK C						LARE							5275	52		NIF
Total: 2			KELLET	PBII	REAK	CIRC	JULAI	ION								5275	52	75	NIH
Depth	Time		t In Wt Ou			ΥP		Gels	/lud Prop FL	HTFL	F	c	HTFC	Sol		<i>N</i> ater	Oil	s	Sand
5178	9:30		60 9.60	38	14	10		4/9/8	6.0	0.0		1	0.00	6.0		94.0%	0.0%		0.1%
MBT	pH			Mf	CI		Са	ES	Poi			otal Sa			EDT		Ratio	Mud	d Los
9.3	8.90				2900		360	0	0.0			0			0.00				0
Vater L	oss	LCM		L Tem	ıρ	UFT			Remar										
0		0.0	0.0	100			L_		MAINT	AIN MUI	WE	IGHT	ANS VI	<u>s</u>		- · · · · · · · · · · · · · · · · · · ·			
) Tale		Da	aily Sur	nmary									
Activity	/ Date	: -	4/1/2007	Da	ys Fro	om S	pud :	- 5	Curren	t Depth :		5970 I	t 24	Hr. Fo	otage	Made:		(695 F
Rig Cor	mpany			ENS	IGN I	USA				Name:					ISIGN				
Forma	ation :	ing -							Wea	ather:									
									Operati	ons									
Start	Hrs	Code			41.791			F	emarks				-,		Is	art Depth	End D	epth	Run
6:00	8.00	02	DRILL F/ 5	275 T	7 552	2			<u></u>		1177.17			************		5275	552		2
14:00	0.50	10	RUN SUR\				8 DFG	AZMT	= 176 4	CORREC	T					5522	552		2
14:30	1.50	02	DRILL F/ 5								·				+	5522	555		2
16:00	0.50	07	SERVICE I					****								5554	555		2
16:30	1.50	02	DRILL F/ 5		5585			·				••••			-	5554	558	_	2
	12.00	02	DRILL F 55												_	5585	597		2
fotal: 24			1222.	30 17	33,0											3300		<u> </u>	
		1.1		1,11,11			i, i . i	N	lud Prop	erties				11 11 11 11					
epth	Time	Wt	In Wt Out	Vis	PV	ΥP	1 (Gels	FL	HTFL	F(<u>э</u> Т	HTFC	Soli	d Iv	Vater	Oil	Q	and
	9:30	9.6		38	14	10		/9/8	6.0	0.0	1		0.00	6.09		4.0%	0.0%		.1%
275				/If		$\overline{}$													
	рΗ	Pm					12		Don	1 1 1 1 m	1110	י עובזו					DO++-		
MBT	pH 8.90	Pm			CI 2900	-	Ca 360	ES n	Pon				I. CaC		EDT/		Ratio		
	8.90	0.20 CM	0.10 0.		2900	JFT	360	0	Pon 0.00	0.00		otal Sa 0	1. Cac		0.00		Ratio		0

						V	/ell	Nar	ne:AR	CHY E	3EN	ICH	11-22	-12-	02					
	d Nar			Uta					S/T/R:			· //		<u></u>	Co	unty,Sta	ate:	· L	JINTAH,	UT
(Opera	tor: Eı	nduring	Res	source	s LLC) Lo	cation	n Desc:	SV	VNV	/-2-11	S-22E		13312	Distr	rict:		Norther	
1000		ibelity.						4-1-1-1	E	aily Su	mm	ary			118 (17)					
Activi	ty Dat	te:	4/2/2	2007	Da	ys Fr	om S	Spud	: 6	Currer	nt De	pth :	646	4 Ft	24 F	Ir. Foot	age N	lade :		494
Rig C					ENS	SIGN	USA	\		Rig	Nam	ie:					SIGN			
Forr	natior	1:		-	Me	esave	erde			We	athe	r:								
						<u>.: 1.:: 1</u>				Operat	ions									
Start	Hrs	Cod								Remarks				- kaj			Sta	rt Deptl	n End De	pth Ru
6:00	9.5				5970 T	/ 623	9											5970	6238	3 2
15:30 16:00	0.5 2.0			ICE I	RIG 6239 T	/ 000	4											3238	6238	
18:00	12.0				6239 T													3238	6301	
Total:		0 02	DIXII		3301 1/	0404	*											301	6464	2
		1		ig .: 11:			H.E.			Mud Prop	pertie	s							ara ara araa .	
Depth	Tim	e W	t In V	√t Οι	ut Vis	PV	YF	T.	Gels	FL		TFL	FC	НТ	FC	Solid	l Wa	ater	Oil	Sano
6052	9:00	10	.00	10.00) 43	18	16	1	1/17/23	9.8		0.0	1		.00	8.0%		.0%	0.0%	0.1%
MBT	pl		n P	f	Mf	Cl		Ca	ES	Poi	m	Lime	Total	Sal.	CaC	12 E	DTA	O/W	Ratio	
9.3	8.7			_		2900		360	0	0.0		0.00	0		0	(0.00			0
Water	Loss		EC		L Tem	р	UFT			Remar	ks							- : 11		
0 Depth	Time	0.0	0.0 t In V) /t Ου	110	l DV	LVD	1	0-1-	 	T	Т			1					T
6301	1 11116			0.00	ıt Vis	PV 0	YP 0		Gels 0/0/0	FL 0.0		TFL).0	FC 0		FC	Solid		ater	Oil	Sand
MBT	pΗ	_			Mf	CI	1 0	Ca	U/U/U ES			Lime	Total		00 CaC	0.0%	DTA		0.0% Ratio I	0.0% Mud Los
0.0	8.7					2800	+	400	0	0.0		0.00	0	Jai.	0		0.00	- C/VV	Ratio	0
Water		LCM	EC		L Tem		UFT			Remar		0.00				ikii si sasa	7.00		Hay I service	
0		0.0	0.0		0					MUD C		DELU	TIDED							
										aily Sun	nma	mv		51479768	m XIC.	445038-80103			Share share a co	
Activit	v Date	2	4/3/2	007	Day	ıc Eri	m C	pud :	enterestations in the	Current	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		6000	FAL	04.11				1	
Rig Co			7/3/2	007		IGN		puu .		Rig N			6990	гц	24 H	r. Foota	ige ivi IGN 7			526
	ation	·				save				Wea							IGN 1	9		
										Operati										
Start	Hrs	Code	9		Tanahali				i i i i i i i F	Remarks							Start	Depth	End Der	oth Rur
6:00	0.00	1												:	<u> </u>		-			2
6:00	1.50	02	DRIL	L F/6	464 T/	6519						•••				~	6	464	6519	2
7:30	0.50	10	RUN	SUR	VEY @	6444	1.8	DEG,	AZM =15	2.4 CORR	ECT	ED						519	6519	2
8:00	2.00				519 T/ 6												6	519	6737	2
18:00	12.00	02	DRIL	_ F/ 6	737 T/	6990											6	737	6990	2
Total: 1	6.00	<u> </u>									*,-									
Depth	Time	Wt			t Vis		ΥP	T		lud Prope			FO 1	1 12	FO 1	0.21	1 100		I	
6554	9:30	10.	_	0.00		23	12		Gels /18/25	FL 6.2		FL .0	FC 1	HTI		Solid	Wa		Oil	Sand
MBT	pH				Vif	:CI	12	Ca	FS ES	l 0.∠ Pom		Lime	Total S	1.0	CaCl	9.0%	│ 91.0 DTA		0.1% Ratio M	0.1%
9.3	9.60					700		360	0	0.00		0.00	0	ai.	0		.00		00	o Los
Nater L		LCM	ECL		_ Temp		JFT			Remark		0.00	'				.50	0/1	00	U
0		0.0	0.0	_	110	T		\neg		1					-					

					V	/ell	Nan	ne:AR	CHY	BE	NCH	11-22	2-12	-02			2 1 2 2 2 2 2				
Fie	ld Nam	e:	U	tah				S/T/R:			//				unty	.Stat	e:l	Į	JINTA	H. U7	
(Operato	r: En	during Re	source	s LLC	Loc	ation	Desc:	5	NW	N-2-11	S-22E		1,000		istric			North		
							1000	D	aily S	umn	narv		i vica								
Activ	ity Date	: T	4/4/200	7 D	ays Fr	om S	: bua	20 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		ent D		710	60 F1	24	Hr F	oota	ne M	lade :	12/1/27/27/2008	7	170 F
	ompan				SIGN			<u> </u>		g Nar		. , , ,	001			ENSI			::[1701
Forr	mation	:								eath											
									Oper	ation	s	landada 17									
Start	Hrs	Cod	e			i din			Remark				Esta Ai				Star	t Dept	h End	Depth	Run
	0.00													· ·			-	7040	70	040	3
6:00			DRILL F														-	3990	70)40	2
13:00			CIRCUL	ATE BR	ING M	IUD W	/EIGH	T UP TO	10.5 A	ND M	IIX SLU	G					7	7040	70)40	2
14:30	3.50		PUMP S					HOLE									7	7040	70)40	2
18:00	3.00		FINISH .															7040	70)40	2
21:00	2.50		P/U BIT			ND I	IEW N	IUD MOT	OR AN	D TR	IP IN HO	OLE TO	3200				-	7040)40	2
23:30	23:30																	7040)40	2
2:30	1.50 3.50																	7040		940	3
	2:30 3.50 02 `DRILLED FROM 6990 T 7160 otal: 24.00															7	040	71	60	3	
Total.	24.00	.::.:::							at D					,							
Total: 24.00 Mud Properties Depth Time Wt In Wt Out Vis PV YP Gels FL HTFL FC HTFC Solid Water Oil Sand																					
7032	11:00		.00 104.0		25	13	-	/21/30	5.8		0.0	1		1.00		0%	87.		0.1%		
MBT	pH			Mf	CI	113	Ca	ES		om	Lime			CaC			TA				0.1% d Loss
0.0	9.30			2.30	3100		160	0		.00	0.00	O		0		0.0			100	IVIU	0
Water		LCM		FL Ten		UFT	Ī		Rem		0.00		1-1-1-1	<u>~</u>		0.	-	1 0	100	 	-
0		0.0	0.0	105					1									·		<u> </u>	
				17.50				Da	aily Su	ımm	ary		x r 3								
Activit	y Date	:	4/5/2007	Da	ys Fro	om Si	oud :	9	Curre	in experience.	Model Medical	764	5 Ft	24 F	ir Fo	ontan	e M	ade :	1	15.1	485 Ft
	mpany				SIGN		-	<u>`</u> _		Nan	·		0 , ,	.ZT 1		NSIC					400 11
	nation :									eathe						11010		<u> </u>			
									Opera												
Start	Hrs	Code					H. D.	R	emarks			in a second					Start	Dent	End [)enth	Run
6:00	11.00	02	DRILL F/	7160 T	/ 7473						11111111							160	74		3
17:00	0.50	07	SERVICE					*										473	74		3
17:30	0.50	02	DRILL F/		7 7505													473	75		3
18:00	4.00	02	DRILL F/													\dashv		505	76		3
22:00	5.00	05	CIRCULA			DITIC	N MU	D, PUMP	HIGH	VIS S	WEEP.	BRING	MUD	WEIG	HT U	P		645	76		3
0.00	0.00		TO 10.7																		لـــــــ
3:00	2.00	06	PUMP SL						P, HOLI	E IN G	SOOD S	HAPE						645	764		3
5:00 Total: 2	1.00	05	CIRCULA	I E ANL	CON	IDITIC	ON HC)LE									70	645	764	45	3
Total. 2	24.00																				
Depth	Time	Wt	In Wt O	ıt Vic	PV	ΥP		els w	lud Pro			FΩ	1 11	rro I	<u> </u>	1	10/-		0.1	T 6	
7250	9:30	10.5			24	20		27/35	FL 4.8		TFL 0.0	FC 1	, 	TFC OO	Sol 14.0		Wa 86.0		Oil		Sand
MBT	pH	Pm		Mf Mf	CI		Ca	27/35 ES	4.8 Pc		Lime	Total		.00 CaC					0.0% Ratio		11%
0.0		0.30			3300		240	0	0.0	_	0.00	0	oai.	CaC 0	14	ED 0.0		0/99	ratio	-	0
Water L		CM		L Tem		JFT	1	1 0	Rema		0.00		_	0		0.0		. :.:		L	-
0		0.0	0.0	110	╁		-								<u>. 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1</u>				<u>::: : : : : : : : : : : : : : : : : : </u>		
									J												

				Sept of the	V	/ell	Nan	ne:AR	CH	/ BE	NCH	11.	-22-	12-	02	A STATE OF					
Field	d Nam	e:	Ut	ah:				S/T/R:			//					ıty,Sta	te:	U	NTAH	UT	
0	perato	r: En	during Re	source	s LLC	Loc	ation	Desc:		SWN	W-2-1	1S-2	2E		ilanii.	Distri	_		Northe		
								Di	aily :	Sumr	nary										
Activit	y Date		4/6/2007	Da	ays Fr	om S	pud :	10	Cui	rrent [Depth:		7645	Ft	24 Hr	. Foota	age N	lade :	Section 1998	* 00	0 Ft
Rig Co					SIGN					Rig Na				- 1		ENS	~		L	•	
Form	nation			Me	esave	rde				Weath											
									Ope	ratio	าร				111 1						
Start	Hrs	Code						F	Rema								Sta	rt Depth	End D	epth	Run
6:00	2.50	05	CIRCULA	ATE AN	D COI	VDITIO	ON MI	JD					<u> </u>					7645	764	5	3
8:30	6.00	06	PUMP S	LUG DR	OP S	URVE	Y PO	OH SURV	EY =	2.6 D	EG W/	134.6	AZM	гсо	RRECT	ED	1	7645	764	5	3
14:30	0.50	21	HELD SA														1	7645	764	5	3
15:00	5.00	11	R/U WLL				OMB	O WLM T	.D. @	7644'	LOG W	/ELL	R.D.M	1.0.				7645	764		3
20:00	2.00	06	TRIP IN I			00'												7645	764		3
22:00	1.00	05	CIRCULA			TO 7	0.45											7645	764		3
23:00 1:00	2.00 3.50	06 05	FINISH T					IO 7 OUT	1/10	-50								7645	764		3
4:30	0.50	21	HELD SA								DOW/N							7645	764		3
Total: 2		21	INCLU 37	71 E 1 I IV	VILLII	NG VI	/11 F1 V	VEATHER	KFOR	D LAT	DOMIA							7645	764	0	3
	-0.00							n.	And P	roper	ties								:::::::: . *		
Depth	Time	Wt	In Wt O	ut Vis	PV	ΥP	19	Gels	F		HTFL	F	С	НТ	FC	Solid] W:	ater	Oil	S	and
7645	9:30	10.			24	20		/27/35	4.		0.0		1			14.0%			0.0%		.1%
MBT	рН	Pm	Pf	Mf	CI		Са	ES		Pom	Lime	e]⊤o	otal S	al.	CaCl2		ATC		Ratio		
0.0	9.20				3300		240	0		0.00	0.00)	0		0	0	.00				0
Water L	oss		ECD I	FL Tem	ıp	UFT			Rer	marks											
0		0.0	0.0	110					<u> </u>												
								Da	ilv S	Sumn	narv										
Activity	/ Date	:	4/7/2007	Da	ys Fro	om Si	oriq .	11		rent D	C.138447.4538		7645	Fŧ	24 Hr.	Foota	ae M	ade ·			0 Ft
Rig Co			.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		IGN		, , , , , , , , , , , , , , , , , , , 	1_ ''		ig Na			7040	<u> </u>	2 	ENSI					
	ation :				save					Veath					,		<u> </u>				
									Ope	ration	s										
Start	Hrs	Code							emar							11	Star	t Depth	End De	pth	Run
6:00	6.50	06	FINISH L	AYING [NOO	I DRII	L PIP	E AND B.	H.A.								1 1 11 1	645	764		3
12:30	0.50	21	PULL WE	AR BUS	SHING	}											7	645	764	5	3
13:00	0.50	22	HELD SA	FETY M	1EETII	VG W	/ WEA	THERFO	RD C	ASING	G CREV	٧					7	645	764	5	3
13:30	5.50	12	R/U RUN	IN HOL	E W/I	FLOA	T SHC	E, SHOE	JT 1	1.60#	4.5 M-8	0 CA	SING	, FLO	DAT CO	LLAR,	7	645	764	5	3
			103 JTS 1 PUP AND	11.60 4.5 HANGI	5" M-8 FR SE	O CAS	SING, OUT V	MARKER M/ LANDI	UT, 7	76 JTS	11.60	4.5 N	/1-80, 1	-10 1	PUP, 1-	-4' ON					
			SHOE JT]				
40.00	0.50		JT,	110.000	-147.0																
19:00 19:30	0.50 2.50	22 05	R/D CASI					CLEL ADE	001	IDITIO	NI MILITS						_	645	7645		3
22:00	4.00		CIRCULA R/U SUEF									-0.20	000 DC	N DI	IMD 40	DDI		645	7645		3
22.00	4.00	12	FRESH, 2															645	7645	<u>, </u>	3
			SKS TAIL	283 BB	L 14.	3# SH	IUT D	AW NWO	SH L	INES,	DROP I	PLUG	, DISI	PLAC	CE W/ 1	17					
2:00	0.50		BBL FRES														 	C45 T	7045		
	0.00	14	CEMENT		IOE (1,0 س	∠ U	LLAK W	1,090	U IVIAP	MER (ا 2,د پ	U K.L	J. IVI. C	J. OUPE	KIUK		645	7645	<u>' </u>	3
2:30	3.00	21	CLEAN PI	T WASI	H UP												7	645	7645	;	3
5:30	0.50	01	5:30 RELE	ASE RI	IG.												7	645	7645		3
Total: 24	4.00																				
Dontil	T:	1.14/	- DAZ O	4 3 7 1	<u> </u>	V- 1				operti						11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	T		1.0		
	Time		n Wt Ou			YP		Sels	FL		1TFL	FC		HTI		Solid	Wa		Oil	_	and
7645 MBT	9:30 PH	10.5 Pm		48 Mf	24 Cl	20		27/35	4.8		0.0	1		1.0		4.0%	86.0		0.0%		1%
0.0		0.30			3300		Ca 240	ES 0	_	om :	Lime 0.00	110	tal Sa	31.	CaCl2		OO.	U/VV-I	Ratio I		
Water Lo		CM T	·	L Temp		JFT	-70			arks	0.00		U		0		00	L	- 	0	
0		0.0	0.0	110	+	<u> </u>	+		1.CII	iui Nõ									-		-
	`								l												

	·W	ell Name:AF	RCHY BENCH 11-22-12-	02	
Field Name:	Utah	S/T/R:	//	County,State:	UINTAH, UT
Operator: I	Enduring Resources LLC	Location Desc:	SWNW-2-11S-22E	District:	Northern

Formation	Name Current W	ell Top Subs	ea Datum Ref We	ell Top E	lec Top		Comm	ents	
				Casing	a				
DateIn	Setting Depth	Jts Run	Туре	Size	Weight	Grade	MINID	HoleDiam	TD
3/19/2007	2005	48	3. Surface	8.625	32	J-55		12.25	2040
Stage: 1,	Tail, 0, 225, 2% CA	CL2, 1/4# FLOV	VCELE, Class G, 3.8 VCELE, Class G, 1. ELE, Class G, 1.15,	15, 15.8					
4/7/2007	7643.19	182	5. Production	4.5	11.6	M-80	0	7.875	7645
Stage: 1,	Tail, 0, 1300, 50/50/	POZ, 2% GEL 5	PER FLAKE 1% SU 5% SALT, (BWOW) LS BUMP PLUG 33	3% SUPE	R FL-200, 25	_SONITE2% #SK SUPER	6CR-1, Class A, 3.8 RFLAKE, 2% CR-1,	31, 11 Class H, 1.22	, 14.3

		i	DEPAR DIVISIO	TMENT		TURA	RESO						(hig 5. LE	hlight c	REPORT L hanges) IGNATION AND 175			:R:
WEL	L COM	IPLE1	TION (OR R	ECO	MPL	ETIC	N RE	POR	TANE	LOG	1111	6. IF		ALLOTTEE OR T	TRIBE	NAME	
a. TYPE OF WELL			VELL		AS Z		DRY		ОТН				7. U	NIT or CA	AGREEMENT N	AME		
		٧	VELL L	٧	ELL W	_	DIVI [_	•					V/A	and NUMBER			
b. TYPE OF WORK NEW WELL	(: HORIZ. L LATS. L] [EEP-	R	E- NTRY		DIFF. RESVR.]	ОТНЕ	ER			.	Archy I	Bench 11-		12-02	
2. NAME OF OPERA Enduring F		es II	C											PI NUMBE 130473				
B. ADDRESS OF OF							·····	* ***			NUMBER:				POOL, OR WIL	DCAT		
475 17th St			orry Der	nver		STATE	СО	zip 802	202	(30	3) 573-1	222			ignated SECTION, TOV	WNSHI	P RANGE	
AT SURFACE:			77' FW	Ļ ·										MERIDIAN VNW			2E S	•
AT TOP PRODUC	CING INTER\	VAL REPO	RTED BEL	ow: s	ame a	s abo	ve											
AT TOTAL DEPT	н: same	e as ab	oove											Jintah		13.	STATE	JTAH
14. DATE SPUDDEI	D: 1	5. DATE	T.D. REACH	HED:	16. DATE	COMPL 30/200		,	BANDON	ED 🔲	READY TO P	RODUC	E 🗸		ATIONS (DF, R	KB, R	T, GL):	
18. TOTAL DEPTH:	MD 7.6	345		9. PLUG					20. IF N	MULTIPLE CO	OMPLETIONS	, HOW N	MANY? *		TH BRIDGE I	MD		
	TVD	J-10				TVD	.,		7	,				PL		TVD		
Previously s			NICAL LOG	SS RUN (S	Submit cop	y of each)			WAS DST	L CORED? RUN? NAL SURVEY	?	NO NO NO	✓ Y	ES (S		analysis) report) copy)	
24. CASING AND L	INER RECOR	RD (Report	all strings	set in we	ell)					15								
HOLE SIZE	SIZE/GR	T	WEIGHT		TOP (MD)	вотто	M (MD)		EMENTER EPTH	CEMENT TO		SLU VOLUM		CEMENT TOP	o **	AMOUNT	PULLED
20"	14"		line p	ipe	C)	4	0			3 yards				0 (CIR)	()
12-1/4"	8 5/8	J55	32	#	16 2,0			005			CLG	555	224		16 (CIF	<u> </u>	()
7-7/8"	4 1/2	M80	11.6	0#	10	6	7,6	643			CIG	1,440	37	78	16 (CBI	<u>-)</u>	()
				-												\dashv		
				-						<u></u>						一		
25. TUBING RECOR	I RD			1			I		<u> </u>						<u></u>			
SIZE		SET (MD)	PACK	ER SET (N	1D)	SIZE		DEPTH	SET (MD)	PACKE	R SET (MD)		SIZE	D	EPTH SET (MD) F	PACKER S	ET (MD)
2 3/8"	4,0	606														丄		
6. PRODUCING IN											RATION REC		CIZE	NO. HOL	EC DED	EOBV.	TION STAT	TUS
FORMATION			(MD)	вотто		TOP	(TVD)	вотто	M (TVD)		L (Top/Bot - N	-	.38"	99	Open 🗸		queezed	$\frac{3}{1}$
A) Mesaverd	le		879		081					5,879 4,753		081 580	.38"	63	Open 🗸		queezed	=
B) Wasatch		4,	,753	5,:	580					4,733	J,,	300	.50	- 03	Open		gueezed	_
C)								_							Open		queezed	_
D)						L	_	<u> </u>						<u> </u>	1			
8. ACID, FRACTUI	INTERVAL	ENI, CEM	ENT SQUE	EZE, ETC	··				AM	OUNT AND T	YPE OF MAT	ERIAL						
5879' - 7081			Plac	ed 28	8 700	lbs O	ttawa	30/50	propp	ant in M	esaverde	e forn	nation					
4753' - 5580											asatch fo							
9. ENCLOSED AT	TACHMENTS		ogs					GEOLOG	IC REPOR	т 🗀	DST REPOR	г [DIREC	TIONAL S			status: oduci	na
SUNDR	RY NOTICE F	OR PLUG	GING AND	CEMENT	VERIFICA	ATION		CORE AN	IALYSIS		OTHER:	Ē						
													$J \subseteq U$,EIV				

(CONTINUED ON BACK)

DEC 1 4 2007

31. INITIAL PRO	DUCTION				INTE	ERVAL A (As show	wn in item #26)					
DATE FIRST PRO 11/30/200		1			HOURS TESTED	: 4	TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF: 1,805	WATER -	BBL:	PROD. METHOD: flowing
	TBG. PRESS. 1,050			/ITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL:	GAS – MCF: 1,805	water – 0	BBL:	INTERVAL STATUS Producing
	· · · · · · · · · · · · · · · · · · ·				INTE	RVAL B (As show	wn in item #26)					
DATE FIRST PRO	ST PRODUCED: TEST DATE: 12/8/2007 IZE: TBG. PRESS. CSG. PRESS. API G ST PRODUCED: TEST DATE: IZE: TBG. PRESS. CSG. PRESS. API G ST PRODUCED: TEST DATE: IZE: TBG. PRESS. CSG. PRESS. API G ST PRODUCED: TEST DATE: IZE: TBG. PRESS. CSG. PRESS. API G ST PRODUCED: TEST DATE: IZE: TBG. PRESS. CSG. PRESS. API G ST PRODUCED: TEST DATE: IZE: TBG. PRESS. CSG. PRESS. API G CST PRODUCED: TEST DATE: IZE: TBG. PRESS. CSG. PRESS. API G IZE: TBG. PRESS. CSG. PRESS. API G MARY OF POROUS ZONES (Include Aquifers): IMPORTANT ZONES of porosity and contents thereof: Creshion used, time tool open, flowing and shut-in pression used, time tool open, flowing and shut-in				HOURS TESTED	r:	TEST PRODUCTION RATES: →	OIL – BBL:	GAS - MCF:	WATER -	BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS	S. API GRAV	/ITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL:	GAS - MCF:	WATER -	BBL:	INTERVAL STATUS
	<u> </u>	L			INTE	ERVAL C (As sho	wn in item #26)					
DATE FIRST PRO	ODUCED:	TEST DATE:	:		HOURS TESTED);	TEST PRODUCTION RATES: →	OIL – BBL:	GAS - MCF:	WATER -	BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS	S. API GRAV	/ITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	N OIL – BBL:	GAS - MCF:	WATER -	BBL:	INTERVAL STATUS
· · · · ·	<u> </u>	<u>.</u>			INTE	ERVAL D (As sho	wn in item #26)					
DATE FIRST PRO	ODUCED:	TEST DATE:	:		HOURS TESTED);	TEST PRODUCTION RATES: →	OIL – BBL:	GAS MCF:	WATER -	BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS	S. API GRAV	/ITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	N OIL BBL:	GAS MCF:	WATER -	BBL:	INTERVAL STATUS
Show all importar	nt zones of porosit	y and contents	thereof: Cored	interval es and r	ls and all drill-stem ecoveries.	tests, including de		34. FORMATION	(Log) MARKERS:			
Formatio	n				Descript	tions, Contents, etc	o.		Name		(Top Measured Depth)
								Green Rive Wasatch Mesaverde				571 3,321 5,643
35. ADDITIONAL	L REMARKS (Incl	ude plugging	procedure)									
		alama e tat	also di la faranza di	an la s	omplete and so	net as daterminad	from all available re	cords.			· 	

SIGNATURE

This report must be submitted within 30 days of • completing or plugging a new well

NAME (PLEASE PRINT) Kevin Lee

- · drilling horizontal laterals from an existing well bore
- recompleting to a different producing formation
- reentering a previously plugged and abandoned well

DATE

significantly deepening an existing well bore below the previous bottom-hole depth

Engineering Tech

12/11/2007

- drilling hydrocarbon exploratory holes, such as core samples and stratigraphic tests
- * ITEM 20: Show the number of completions if production is measured separately from two or more formations.
- ** ITEM 24: Cement Top Show how reported top(s) of cement were determined (circulated (CIR), calculated (CAL), cement bond log (CBL), temperature survey (TS)).

Send to:

Utah Division of Oil, Gas and Mining 1594 West North Temple, Suite 1210 Box 145801

Salt Lake City, Utah 84114-5801

Phone: 801-538-5340

801-359-3940 Fax:

CONFIDENTIAL

5. LEASE DESIGNATION AND SERIAL NUMBER:

ORM 0

DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS AND MINING

			ML-47075
SUNDRY	NOTICES AND REPORTS	ON WELLS	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
Do not use this form for proposals to drill ne	ew wells, significantly deepen existing wells below curr terals. Use APPLICATION FOR PERMIT TO DRILL fo	rent bottom-hole depth, reenter plugged wells, or to orm for such proposals.	7. UNIT OF CA AGREEMENT NAME: N/A
1. TYPE OF WELL OIL WELL	GAS WELL 🗹 OTHER _	and the second s	8. WELL NAME and NUMBER: Archy Bench 11-22-12-2
2. NAME OF OPERATOR:	· · · · · · · · · · · · · · · · · · ·		9. API NUMBER:
Enduring Resources, LLC			4304736793
3. ADDRESS OF OPERATOR:	D	PHONE NUMBER:	10. FIELD AND POOL, OR WILDCAT:
4. LOCATION OF WELL	Denver STATE CO ZIP	80202 (303) 350-5114	Undesignated
FOOTAGES AT SURFACE: 2347 F	NL - 577 FWL		COUNTY: Uintah
QTR/QTR, SECTION, TOWNSHIP, RANG	ge, meridian: SWNW 2 11S 2	2E S	STATE: UTAH
11. CHECK APPE	ROPRIATE BOXES TO INDICAT	E NATURE OF NOTICE, REPO	RT, OR OTHER DATA
TYPE OF SUBMISSION		TYPE OF ACTION	
NOTICE OF INTENT	ACIDIZE	DEEPEN	REPERFORATE CURRENT FORMATION
(Submit in Duplicate)	ALTER CASING	FRACTURE TREAT	SIDETRACK TO REPAIR WELL
Approximate date work will start:	CASING REPAIR	NEW CONSTRUCTION	TEMPORARILY ABANDON
	CHANGE TO PREVIOUS PLANS	OPERATOR CHANGE	TUBING REPAIR
	CHANGE TUBING	PLUG AND ABANDON	VENT OR FLARE
SUBSEQUENT REPORT (Submit Original Form Only)	CHANGE WELL NAME	PLUG BACK	WATER DISPOSAL
Date of work completion:	CHANGE WELL STATUS	PRODUCTION (START/RESUME)	WATER SHUT-OFF
	COMMINGLE PRODUCING FORMATIONS	RECLAMATION OF WELL SITE	OTHER: Commingling
9/30/2008	CONVERT WELL TYPE	RECOMPLETE - DIFFERENT FORMATION	Conformation
Notice of first gas sales on	n November 30, 2007.	ertinent details including dates, depths, volume	
NAME (PLEASE PRINT) Alvin R. (A	al) Arlian	TITLE Landman - Regu	latory Specialist
SIGNATURE		DATE 9/30/2008	

(This space for State use only)

RECEIVED

	DEPARTMENT OF NATURAL RESOUR	RCES			
	DIVISION OF OIL, GAS AND MI	NING		ř.	SE DESIGNATION AND SERIAL NUMBER: -47075
SUNDRY	NOTICES AND REPORTS	S ON WEL	LS	ŧ	NDIAN, ALLOTTEE OR TRIBE NAME:
				N/A	·
Do not use this form for proposals to drill n drill horizontal la	new wells, significantly deepen existing wells below curr aterals. Use APPLICATION FOR PERMIT TO DRILL fo	rent bottom-hole dep orm for such proposa	th, reenter plugged wells, or to	7. UNI	T or CA AGREEMENT NAME:
TYPE OF WELL OIL WELL	GAS WELL OTHER_			i .	LL NAME and NUMBER: hy Bench 11-22-12-2
2. NAME OF OPERATOR:				<u></u>	NUMBER:
Enduring Resources, LLC				ł .	4736793
3. ADDRESS OF OPERATOR: 475 17th Street, Suite 1500	Y Denver	80202	PHONE NUMBER: (303) 350-5114		ELD AND POOL, OR WILDCAT: designated
4. LOCATION OF WELL	Y STATE ZIP		(000) 000 0111		
FOOTAGES AT SURFACE: 2347'	FNL - 577' FWL			COUN	ту: Uintah
QTR/QTR, SECTION, TOWNSHIP, RAN	IGE, MERIDIAN: SWNW 2 11S 2	2F S		STATE	
				017112	UTAH
11. CHECK APPR	ROPRIATE BOXES TO INDICAT	E NATURE	OF NOTICE, REPO	RT, O	R OTHER DATA
TYPE OF SUBMISSION		T	YPE OF ACTION	<u>.</u>	
NOTICE OF INTENT	ACIDIZE	DEEPEN			REPERFORATE CURRENT FORMATION
NOTICE OF INTENT (Submit in Duplicate)	ALTER CASING	FRACTURE	TREAT	一	SIDETRACK TO REPAIR WELL
Approximate date work will start:	CASING REPAIR	NEW CONS	TRUCTION	一	TEMPORARILY ABANDON
	CHANGE TO PREVIOUS PLANS	OPERATOR	CHANGE		TUBING REPAIR
	CHANGE TUBING	PLUG AND			VENT OR FLARE
SUBSEQUENT REPORT	CHANGE WELL NAME	PLUG BACK			WATER DISPOSAL
(Submit Original Form Only)	CHANGE WELL STATUS		` ON (START/RESUME)		WATER SHUT-OFF
Date of work completion:	COMMINGLE PRODUCING FORMATIONS		ION OF WELL SITE		OTHER: Well Workover - lower
11/27/2008	CONVERT WELL TYPE		TE - DIFFERENT FORMATION	₩	tubing.
12. DESCRIBE PROPOSED OR CO	DMPLETED OPERATIONS. Clearly show all po				
12. DESCRIBE PROPOSED OR CO	MIPLETED OPERATIONS. Clearly show all pr	ertinent details int	duding dates, depths, volume	es, etc.	
Commencing 11-27-2008.					
commonoing 11 27 2000.					•
	ut well to 7,440' using foam air ur	nit.			
2. Pulled tubing and run b					
3. Lower tubing from 4,60					
4. Rig down, turned well b	back over to Pumper.				
NAME (PLEASE PRINT) Alvin R. (A	I) Arlian	TITLE	Landman - Regul	atory	Specialist
CICNIATUDE CONT.	(Co		1/23/2009		
SIGNATURE	A	DATE			
(This space for State use only)					

RECEIVED FEB 0 2 2009

	Well	Name : ARCH	Y BENCH 11	-22-12-0	02	
Prospect:					AFE #:	DV00017S1
Sec/Twp/Rge:		1 /			AFE Total:	\$1,451,290
API#:	430473679300	Field:	Utah		This AFE Cost:	\$449,797
Work Type:	Completion	County , St.:	UINTAH,	UT	Tot Assoc AFE's:	\$449,797
Operator:	Induring Resources LL	Supervisor:	:		Phone:	
Production Current/	Expected Oil:	0/0	Gas:	0/0	Water:	0/0

Date : 11/27	7/2008	Days:	449	DC:	\$34,142	CCC:	\$436,207	CWC:	\$436,207
Activity:	С	lean out well		Rig Name:	Basic Ri	g # 1629			
Daily Report Sumi	nary:			ll using foam air ur	nit flowed we	ell as tbg	was pulled	& rih for	oroduction
		well was turned to	production a	t end of day					
Daily Report De	tail:	Remarks	-11	1					
		Safety Meeting w/ sitp 450 psi fcp 15			umn lina ta	tha & nu	mnad 30 hl	ale treater	filtered wtr
		to kill the	o pai biod oii	tog pressure r.u p	unp me to	tog & pui	iiped oo bi	ois troutor	intered wi
		"continued rih w/ 3	7/8"" mill to	tag fill @ 6930' ple	ease note ye	esterday o	sg scrapp	er tag was	s @ 6945'''
		p.u power swivel p							
		broke circ, using F			70041 7 /		0051 1	1 1 1 - •	7.4.401
		drilled out hard sca circ, hole clean us						ed out to	744U [.]
		pooh laid down 21						n tho as n	eeded
		"rih w/ tbg as follow							
		149-jts Used tbg ""	rerun"" 70 jts	New J-55 2 3/8""	tbg landed	tbg on ha	inger w/ Ed	t @ 6795	' w/16' K.B"
		n.d bop n.u well he							
From 7:00 To 7:15).25 hr			ing: Safety Mettir					
From 7:15 To 7:45	0.5 hrs	Category/Rmks:		itp 450 psi fcp 150			sure r.u pu	mp line to	tbg &
From 7:45 To 8:50	.08 hr	Cotogon/Pmks		bbls treated filtere ontinued rih w/ 3 7			020' place	noto vo	tordov oog
F10111 7.45 10 6;50	1.00 111	Category/Kinks.		g was @ 6945'	/6 Hilli to ta	ag iiii @ o	aso pleas	e note yes	sterday csg
From 8:50 To 9:20	0.5 hrs	Category/Rmks:		power swivel pre	pped to clea	an out we	ll .		
From 9:20 To 10:15).92 hr	Category/Rmks:	Circulating	: broke circ, using	R&W Renta	al foam ai	r unit		
From 10:15 To 11:50	.58 hr	Category/Rmks:		lled out hard scale	from 6930'	to botton	n perf @ 70	081' rih to	tag @ 7365'
	_		cleaned out						
From 11:50 To 13:00	.17 hr	Category/Rmks:		: circ, hole clean u	sing foam a	ıir unit pu	mped @ 30) bbls trea	ated wtr to
From 13:00 To 15:20) 1 22 hr	Category/Pmks	kill tbg	oh laid down 21-jts	the on trail	or noch w	ultha 8 mil	l w / woll f	owing up
11011 13.00 10 13.20) [.33 III	Category/Milks.		g as needed	i iby on trail	ei hooii w	" tog a mil	I W/ WEII II	owing up
From 15:20 To 17:10	1.83 hr	Category/Rmks:		-Ended: rih w/ tb	g as follows	w/ well fl	owing up o	sa killina	tbg as
		L	needed note	hed collar 1 -jt Ne	w seat nipp	le 149-jts	Used tbg '		
	_	,		landed tbg on ha					
From 17:10 To 18:30				: n.d bop n.u we					
Date : 12/2/		Days:	454	DC:	\$772		\$436,979	cwc:	\$436,979
Activity:		igging Down		Rig Name:	Basic Ri	g # 1629			
Daily Report Sumn									
Daily Report Det		Remarks							
		safety meeting w/ r r.d rig & equipment		to 11 22 22 02	ali baad				
From 7:00 To 7:15).25 hr			ng : safety meetir			· ··		
From 7:15 To 8:30	.25 hr			r.d rig & equipmen	<u> </u>		2-22-02 \	ell head	
. 1011 7. 10 10 0.00	1.20 1111	22.030.77	2 2 3 4 11	iig a oquipiner	1110104 04	0. (0 11-2	OZ W		

	Well	Name : ARCH	Y BENCH 1	1-22-12-	02	
Prospect					AFE #:	DV00017S1
Sec/Twp/Rge:		11			AFE Total:	\$1,451,290
API#	430473679300	Field:	Utal	n	This AFE Cost:	\$449,797
Work Type:	Completion	County, St.:	UINTAH	I, UT	Tot Assoc AFE's:	\$449,797
Operator	Enduring Resources LL	Supervisor:			Phone:	
Production Current/	Expected Oil:	0/0	Gas:	0/0	Water:	0/0

Date :	12/3/2008		Days:	455	DC:	\$13,590	CCC:	\$449,797	cwc:	\$449,797
Activity:		Acid	ize		Rig Name:					
Daily Rep	ort Summary :		· · · · · · · · · · · · · · · · · · ·							
Daily R	eport Detail:	Spot a PJSM Open Pump 10 bb 10 bb Displa 8 BPM	l's 10% down t is acid down T ace down tbg v M down csg.	rior Equipme 3500 psi. WHP HCL down 1 tbg, then 20 bg, then 20 v/ 26 bbl's &	~	esg, 10 min g, 10 minu No pressu	nute soak. ite soak. ire during o	displacemen	t, line fric	ction only @
From 12:15	To 14:00 .75 h	r C	ategory/Rmks: N	Move In / Rig	UP:Wait on ri	ig to move	, then MIR	U		
From 14:00	To 16:00 2 hrs	C	ategory/Rmks: /	Acidize : pur	mp acid job, & di	splace. Mo	ove over to	A.B. 22-02		

				Casing	". · · " . <u>-</u>	la en en la			41.1
DateIn	Setting Depth	Jts Run	Туре	Size	Weight	Grade	MINID	HoleDiam	TD
3/19/2007	2005	48	3. Surface	8.625	32	J-55		12.25	2040
Stage: 1,	Lead, 0, 230, 16% C	SEL, 1/4# FLOV	VCELE, Class G, 3.8	35, 11.1					
Stage: 1,	Tail, 0, 225, 2% CA	CL2, 1/4# FLOV	VCELE, Class G, 1.	15, 15.8					
Stage: 1,	, 0, 100, 2% CACL2	, 1/4# FLOWCE	LE, Class G, 1.15,	15.8					
4/7/2007	7643.19	182	5. Production	4.5	11.6	M-80	0	7.875	7645
Stage: 1,	Lead, 0, 140, 16% C	EL 25# SK SU	PER FLAKE 1% SU	RERSIL-SI	,10# SK GI	LSONITE29	6CR-1, Class A, 3.	81, 11	
Stage: 1,	Tail, 0, 1300, 50/50/	POZ, 2% GEL :	5% SALT, (BWOW)	3% SUPER	R FL-200, 25	#SK SUPER	RFLAKE, 2% CR-1	, Class H, 1.22,	14.3
			LS BUMP PLUG 33						

Date:	Formation	Perf Status	Upper Perf	Lower Perf	Sht / Ft	Description:
11/20/2007	Mesaverde	Open	7078	7081	3	
11/20/2007	Mesaverde	Open	7045	7048	3	
11/20/2007	Mesaverde	Open	7023	7025	3	
11/20/2007	Mesaverde	Open	7001	7003	3	
11/20/2007	Mesaverde	Open	6975	6977	3	
11/20/2007	Mesaverde	Open	6959	6961	3	
11/21/2007	Mesaverde	Open	6806	6809	3	
11/21/2007	Mesaverde	Open	6802	6804	3	
11/22/2007	Mesaverde	Open	6143	6145	3	
11/22/2007	Mesaverde	Open	6132	6134	3	
11/22/2007	Mesaverde	Open	6076	6078	3	
11/22/2007	Mesaverde	Open	6070	6072	3	
11/22/2007	Mesaverde	Open	5885	5889	3	
11/22/2007	Mesaverde	Open	5879	5881	3	_
11/22/2007	Wasatch	Open	5576	5580	3	
11/24/2007	Wasatch	Open	5352	5357	3	
11/24/2007	Wasatch	Open	4858	4864	3	
11/24/2007	Wasatch	Open	4753	4758	3	
11/24/2007	Wasatch	Open	4864	4865	3	

DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS AND MINING

TO THE FOLLO		OIL AND GAS		LATION VATION ACT			
	WING OPERATOR		CONCLIN	VATIONACT			
	•						
Name:	Enduring Resources						
Address:	475 17th Street, Su	TE 1500					
City:	Denver		State:			Zip: 8020	2
Company F	Representative: <u>/</u>	N Arlian	· · · · · · · · · · · · · · · · · · ·		Phone:		
amended, the ur	ndersigned authorize	and Gas Conservated representative of ton(s) of the act, rules	he Utah D	ivision of Oil, C	as and Mini	ng, in the co	
Description of	Violation: 42	047 36793	115	22 <i>E</i>	2		
The reserve p	it for the 2 well pad of t	he Archy Bench 11-22- e year since completio	-12-2 and A		22-22-2 (SW/I	NW Section 2	2, T11S, R25E) ł
•						•	
	•	g act, rule, or permi 3 states, "Following dri			well the reser	ve pit shall be	e closed within o
~	n ction should be ta l it must be closed by Ma	ken to remedy this a	violation:				
~			violation:				
_			violation:				

7004 1160 0003 0190 2785

NOTICE OF VIOLATION

A Notice of Violation may be issued when an operator is regarded to be in violation of the Utah Oil and Gas Conservation Act (Section 40-6 et. Seq., Utah Code Annotated, 1953, as amended), the Utah Oil and Gas Conservation General Rules, or the conditions of any associated permit or reporting requirement.

The Utah Oil and Gas Conservation Act and Utah Oil and Gas Conservation General Rules can be found on the division's web site at:

http://ogm.utah.gov

A Notice of Violation shall remain in effect and on the records of the operator until it is modified, terminated or vacated by a written notice of violation closure prepared by an authorized representative of the director of the Division of Oil, Gas and Mining.

Written responses to a Notice of Violation should be sent to:

Utah Division of Oil, Gas and Mining 1594 West North Temple, Suite 1210 Box 145801 Salt Lake City, Utah 84114-5801

Fax: 801-359-3940

	FORM 9				
	5.LEASE DESIGNATION AND SERIAL NUMBER: ML-47075				
SUNDR	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:				
Do not use this form for propos bottom-hole depth, reenter plu DRILL form for such proposals.	7.UNIT or CA AGREEMENT NAME:				
1. TYPE OF WELL Gas Well	8. WELL NAME and NUMBER: ARCHY BENCH 11-22-12-2				
2. NAME OF OPERATOR: Enduring Resources, LLC	9. API NUMBER: 43047367930000				
3. ADDRESS OF OPERATOR: 475 17th Street, Suite 1500 ,	Denver, CO, 80202 30	PHONE NUMBER: 3 350-5114 Ext	9. FIELD and POOL or WILDCAT: BITTER CREEK		
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2347 FNL 0577 FWL			COUNTY: UINTAH		
QTR/QTR, SECTION, TOWNSHI Qtr/Qtr: SWNW Section: 02	P, RANGE, MERIDIAN: 2 Township: 11.0S Range: 22.0E Meridia	n: S	STATE: UTAH		
11.	CK APPROPRIATE BOXES TO INDIC	ATE NATURE OF NOTICE, REPORT	, OR OTHER DATA		
TYPE OF SUBMISSION		TYPE OF ACTION			
	ACIDIZE	ALTER CASING	CASING REPAIR		
NOTICE OF INTENT Approximate date work will start:	☐ CHANGE TO PREVIOUS PLANS	CHANGE TUBING	CHANGE WELL NAME		
	CHANGE WELL STATUS	COMMINGLE PRODUCING FORMATIONS	CONVERT WELL TYPE		
✓ SUBSEQUENT REPORT Date of Work Completion:	DEEPEN	FRACTURE TREAT	☐ NEW CONSTRUCTION		
5/19/2009	OPERATOR CHANGE	PLUG AND ABANDON	PLUG BACK		
SPUD REPORT	PRODUCTION START OR RESUME	RECLAMATION OF WELL SITE	RECOMPLETE DIFFERENT FORMATION		
Date of Spud:	REPERFORATE CURRENT FORMATION	SIDETRACK TO REPAIR WELL	TEMPORARY ABANDON		
	TUBING REPAIR	VENT OR FLARE	WATER DISPOSAL		
DRILLING REPORT Report Date:	WATER SHUTOFF	SI TA STATUS EXTENSION	APD EXTENSION		
	☐ WILDCAT WELL DETERMINATION	✓ OTHER	OTHER: Pit Closed		
	MPLETED OPERATIONS. Clearly show all ped and site has been re-conto	oured. Will re-seed in fall.	Accepted by the Utah Division of Oil, Gas and Mining Date: May 28, 2009 By:		
NAME (PLEASE PRINT) Alvin Arlian	PHONE NUMBE 303 350-5114	TITLE Landman-Regulatory			
SIGNATURE N/A	303 330 3117	DATE 5/19/2009			

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	2 Township: 11.0S Range: 22.0E Meridian: S		STATE: UTAH		
11. CHE	CK APPROPRIATE BOXES TO INDICATE	NATURE OF NOTICE, REPORT,	OR OTHER DATA		
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	ACIDIZE	ALTER CASING	CASING REPAIR		
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✓ SUBSEQUENT REPORT	CHANGE WELL STATUS	COMMINGLE PRODUCING FORMATIONS	CONVERT WELL TYPE		
Date of Work Completion:	L DEEPEN L	FRACTURE TREAT	☐ NEW CONSTRUCTION		
	☐ PRODUCTION START OR RESUME	PLUG AND ABANDON RECLAMATION OF WELL SITE	☐ PLUG BACK ☐ RECOMPLETE DIFFERENT FORMATION		
SPUD REPORT Date of Spud:	REPERFORATE CURRENT FORMATION	SIDETRACK TO REPAIR WELL	TEMPORARY ABANDON		
	UBING REPAIR	VENT OR FLARE	WATER DISPOSAL		
DRILLING REPORT Report Date:	□ WATER SHUTOFF □	SI TA STATUS EXTENSION	APD EXTENSION		
Report Date:	☐ WILDCAT WELL DETERMINATION ✓	OTHER	OTHER: Interim Reclamation		
12 DESCRIBE BRODOSED OR CO			'		
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. Archy Bench 11-22-12-2 and 11-22-22-2 Pit Reclamation The pit backfill was reseeded 11/20/2009. The location was disked to prepare the seed bed, the Accepted by the seed broadcast over the seed bed and harrowed to bury the seed. The Utah Division of location was seeded with the following seed mix. Double the BLM Oil, Gas and Mining recommended PLS per acre were used because the seed could not be The RECORD OILY due to rocky location and was broadcast instead. 16# -Squirrel Tail Grass, 12# -Galleta Grass, 12# - Indian Rice Grass, 8# -Crested Wheat Grass The Packing Slip and bag tags for the seed will be kept in the Vernal Office's Well File and available on request.					
NAME (PLEASE PRINT) Alvin Arlian	PHONE NUMBER 303 350-5114	Landman-Regulatory	TITLE Landman-Regulatory		
SIGNATURE N/A		DATE 12/3/2009			

	FORM 9				
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SIGNATURE N/A	303 330 3117	DATE 5/19/2009			